

SEQUENCE LISTING

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<120> SECRETED EXPRESSED SEQUENCE TAGS (sESTs)

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ccacgctgga gcagccgcag gtgcccgca aggtgcgaca acctgaaggt cccgaaagca 180
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ccgaagcgcc ttcccaact tgggtgcttc tctgggata actgtgatga aggaaaggac 180
cctgcagtga tcaaaagcct caccgatcaa cctgacccca ttgtgggtcc tggagatgta 240
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<213> Homo sapiens

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gcagcccgtc tgcctcctct gggcctcctt ctctgctgct tgcctcctgccc cgtccctgccc 180
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taccagaata tacaactaac aattcaacag tgatgttctt tgcatttctg gggagatgtg 240
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ctatttgatt tccactctta tatgttcttg tcattgtctc cttgcatggg ggtgcgtgcg 180
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<211> 437
<212> DNA
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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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agaaattctg tttttaaaaa ttagecctaag atatacttgt ttttgtaaag aaaaatattt 240
aatgttgaac aaaataaatt ggagttggag tagaatactc gag 283

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<211> 314

<212> DNA

<213> Homo sapiens

<400> 23

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cgctccctga ggaggacctg tccaaactct tcaaaccacc acagccgctt gccaggatgg 240
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<211> 284

<212> DNA

<213> Homo sapiens

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taaattgtgt caaaagtacc atctttttca cagatgttct cgag 284

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<211> 161

<212> DNA

<213> Homo sapiens

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agaaaaataa aatgtgtccc aaaagaagtc cgtacctcga g 161

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<212> DNA

<213> Homo sapiens

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gcttcaagct ccacctcaaa gcgtcctgca ccaggcattg ccagcgatct ccccttcaca 600
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<211> 144

<212> DNA

<213> Homo sapiens

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ttttccattg cagctaccct cgag 144

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<211> 250

<212> DNA

<213> Homo sapiens

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tttaactccct accttaaggc cttcacattt gttgtctcaa cctgaatgct cttacattag 180
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<211> 277

<212> DNA

<213> Homo sapiens

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accattgtct ttttcagctg tgtttagcac atcaaaatca gtttctacac cacagtcaac 180
aggttctgct gctactatga cagcattggc agcaacaaaa acttctagtt tggctgatga 240
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<211> 258

<212> DNA

<213> Homo sapiens

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attgacatgg attctaaatt tgaaaatagc aacaaagatt taaaggaaga attgtgcct 180
ggaaatctaa gtctagttag tacaaggcaa cacagttcag cacattcaaa tcaagataaa 240
aaagacgatg agctcgag 258

<210> 31

<211> 308

<212> DNA

<213> Homo sapiens

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acttttactc ttacatttgg acaagttatt tgtggagata attgctcaat ttcagtatga 240
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agctcgag 308

<210> 32

<211> 338

<212> DNA

<213> Homo sapiens

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 atcttgttgt ggtaaacatg gatgagagta tgtggacaaa agaatatgaa ggaaacgtga 240
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 tggtaaaatt gattgaaaaa acgttatggg ccaggcgagc tggctcatgc ctgtaatctc 180
 aacagtttgg gaggccaaag caagcggatc actcgag 217

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 aaaacaacca gaccatgaaa catgatgcta aaatgagata cctgagtgat gatgtggatg 240
 acatttcctt gtcgtctttg tcattctctg ataagaatga ttaagttaa gacttttagtg 300
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 agacaggtgg tctttgaaga tgagttcaca gcctccctcg ag 222

<210> 38
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 gacatccact tggatgtctg atagtattcc cagatctaac attggccaaa tcgtctttt 180
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<210> 39
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 catacattgg gtatgtgaga ttgtggcggg ggggtggtcc cctagctttt tgtctataat 180
 ttctgatttt attgcaataa atttaaacca caacacagag ctcgag 226

<210> 40
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 40
 gaattcgcgg ccgcgtcgac ctagtttatg agtttattct tctgctcgtt ttggagttt 60
 gtttttgttt ttctagtttt ttttaggtcg aggtgaggtt gtttaattgga cgtctatctc 120
 cttggtgtag acgttttagt ctgtctagtc ctcttaacac tgtgtttgtc gcaacccaga 180
 ggttttggcc tgttttcatt ttttaacaaa tgattttgtt ttctgtcata attttcttgt 240
 ttacccaaaa cctcgag 257

<210> 41
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 41
 gaattcgcgg ccgcgtcgac tgcaagtaag gactatggaa aatttccaaa ccagattgga 60
 tcgttcagaa gccattcttc tgttgattct ttacacttcc ctccatttag ccgaaagaat 120
 tgagagccaa cctttccaaa tgccctgtc ccggttagca ggcaccaaag agctcatttc 180
 atttccctgct gccagcttaa tactcaccag ggcactcgag 220

<210> 42
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 42
 gaattcgcgg ccgcgtcgac gttacttttg caacaagttc ttttaccctt acccgtggta 60
 ttgaaaaaaa atcaaggtaa ctgtctgaat accttaatat cagcttggtt tgtgaattct 120

ctgaatactg tcaacactct tatctaagtt tgcctttatg atgcagtggc agcattttga 180
 attacttttc aaagaatact gtccatatgc attgtttttg tgtttcaaac taaatacagg 240
 cagttttgtg ccagctgtga tattgtgcat accatatgga cacctcgag 289

<210> 43

<211> 252

<212> DNA

<213> Homo sapiens

<400> 43

gaattcgcg cgcgctcgac tttaacttaa aaattggctg tcatctcaga atttaactta 60
 aattttataca aatatttttg tagtagttaa taggtatatatt ggtagtaatt tggtagtttg 120
 gtacatttgg tagtaattaa taggtacatt ttctgctgt gtagattgtt taagaaaaca 180
 gtgataatta tgcaaaagaaa tgttcaaata actgtttggg tagtgatttt ggcttatttg 240
 gtcactctcg ag 252

<210> 44

<211> 162

<212> DNA

<213> Homo sapiens

<400> 44

gaattcgcg cgcgctcgac ctaagttcca cattttattt agattccact agttttccca 60
 ttaatgtcca ttctgtttct agaateccaat ccttttctctg tatgctatgg attatcagac 120
 ccctcacttg ggttccctct acatcaccaa gatgtgctcg ag 162

<210> 45

<211> 281

<212> DNA

<213> Homo sapiens

<400> 45

gaattcgcg cgcgctcgac cttcttattt ccttgctgat gcatatctgc cgagtcttgg 60
 ttctgttttg ggctctatgt ccagcaagtg atagtctcat taggagcgtg gtagaacata 120
 gcgaagcctg gcattttggt cctccctctg tctcccaaag tctgtgggatt acaggcgtga 180
 gccactgcgc ctggtctggt tctctccgta tgtgtgccac ataccgtgag ccattcagat 240
 ggatgaaagc aaacttcctt ataaaaggcc agaagctcga g 281

<210> 46

<211> 265

<212> DNA

<213> Homo sapiens

<400> 46

gaattcgcg cgcgctcgac caccagacaa ctctatgagg gcagaaatta gatctatttt 60
 gctcatcatt gtatctccag agtccaacac aatgccagc attggagtaa ggtattttaaa 120
 tatttttaaaa aaattttttt tgagagacag ggtctccctc tgtcaccag gctgggggtgc 180
 agtggcacc ccatggctca ctctaacagc ctctggggt caagcagtc gaactacagg 240
 tatgtgctac cacaccgagc tcgag 265

<210> 47

<211> 336

<212> DNA

<213> Homo sapiens

<400> 47

gaattcgcg cgcgctcgac aaagtgtag aaaatcatgt tcttgtctt gagtaagagt 60
 taatcagagt aaatgcatt ctggagtgt ttctgtgat taaattatga tcattattta 120
 agaagtcaaa tctgatctt gaagtgttt ttatacagct ctctaataat tacaatatc 180
 cgaagtcatt ttcttggaac acaagtggag tatgccaaat ttatatgaa tttttcagat 240

tatctaaagct tccagggtttt ataattagaa gataatgaga gaattaatgg ggtttatatt 300
 tacattatct ctcaactatg tagcccgctt ctcgag 336

<210> 48

<211> 703

<212> DNA

<213> Homo sapiens

<400> 48

gaattcgcg cgcgctcgac gggacgtgaa attgacagtg aaaagtatgg cagatgagca 60
 agaaaatcatg tgcaaatgg aaagcattaa agagatcagg aacaagaccc tgcagatgga 120
 gaagatcaag gctcgtttga aggcctgagtt tgaggcactt gaggcagagg aaaggcacct 180
 gaaggaatac aagcaggaga tggaccttct gctacaggag aagatggccc atgtggagga 240
 actccgactg atccacgctg acatcaatgt gatggaaaac actatcaaac aatctgagaa 300
 tgacctaaac aagctgctag agtctacaag gaggctgcat gatgagtata agccactgaa 360
 agaacatgtg gatgccctgc gcatgactct gggcctgcag aggcctcctg acttggtgta 420
 agaagaggag aagctttcct tggattactt tgagaagcag aaagcagaat ggcagacaga 480
 acctcaggag ccccccatcc ctgagtcctt ggcgctgca gccgctgccg cccaacagct 540
 ccaagtggct aggaagcag atactcggca gacggccacc ttcaggcagc agccccacc 600
 tatgaaggcc tgcttgctcat gtcaccagca aattcaccgg aatgcaccta tatgccctct 660
 ttgcaaggcc aagagtgggt ccggaaccc caataaactc gag 703

<210> 49

<211> 247

<212> DNA

<213> Homo sapiens

<400> 49

gaattcgcg cgcgctcgac cagtcacga gcatcacgta ctcatccctg cacatctcat 60
 ggaaggctgg acacctcttc tcaactacaag gcttcacctc ctctccggtg ccctcgcagg 120
 ggtagccctg cgtgccctg gcctggcaca tgcggaagcg gcgctgccag cctgtgtcac 180
 acgtcttaga gcacaggctc cagcattcc atggccccca cttgctatca gtggccgggc 240
 actcgag 247

<210> 50

<211> 290

<212> DNA

<213> Homo sapiens

<400> 50

gaattcgcg cgcgctcgac aaataatagc tatccatcac tcaggatagc tggttagcta 60
 gcaaaagaat taacatttgt gatatttact tgcaaacctt actgaagcca tattcattat 120
 ctcccttgct accaaggctg ttgaccttaa ataaacatta agttgatttt gcacaacact 180
 gtatttgtgt gtgtgcatgt gcctgttttt gtgtgtgtat gtttgtggga aataattatg 240
 tttgtttccg catatattca tttttaatgc attctgtaac tttctcgag 290

<210> 51

<211> 417

<212> DNA

<213> Homo sapiens

<400> 51

gaattcgcg cgcgctcgac cgactgagcc ggggtggatgg tactgctgca tccgggtgtc 60
 tggaggctgt gccggttttg tttctttggc taaaatcggg ggagtgaggg gggccggcgc 120
 ggcgcgacac cgggctccgg aaccactgca cgacggggct ggactgacct gaaaaaatg 180
 tctggatttc tagagggtct gagatgctca gaatgcattg actgggggga aaagcgcaat 240
 actattgctt ccattgctgc tgggtgacta ttttttacag gctgggtggat tatcatagat 300
 gcagctgtta tttatccac catgaaagat ttcaaccact cataccatgc ctgtggtgtt 360
 atagcaacca tagccttctt aatgattaat gcagtatcga atggacaagt cctcgag 417

<210> 52
 <211> 379
 <212> DNA
 <213> Homo sapiens

<400> 52
 gaattcgcgg ccgcgtcgac tgaagatgct gcggctggca ctaactgtga catctatgac 60
 cttttttatc atcgacaag cccctgaacc atatatgtt atcactggat ttgaagtcac 120
 cgttatctta tttttcatac ttttatatgt actcagactt gatcgattaa tgaagtgggt 180
 attttggcct ttgcttgata ttatcaactc actggtaaca acagtattca tgctcatcgt 240
 atctgtgttg gcaactgatac cagaaaccac aacattgaca gttgggtggag ggggtgttgc 300
 acttgtgaca gcagtatgct gtcttgccga cggggccctt atttaccgga agcttctgtt 360
 caatcccagc ggactcgag 379

<210> 53
 <211> 105
 <212> DNA
 <213> Homo sapiens

<400> 53
 gaattcgcgg ccgcgtcgac aagaagcgta tggactacta tgactctgaa caccatgaag 60
 actttgaatt tatttcagga acacgaatgc gcaaaactgc tcgag 105

<210> 54
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 54
 gaattcgcgg ccgcgtcgac gttgatggtg agaatgatgg cagctgctgt ttgttgggca 60
 ccagctgttg tcaggtacag tgctaagcac tttaattaca ctgttaagtc accaggacag 120
 aaactccccc acaccagctc tgtaataggg gtgagtgttg gacataagca gggagttgac 180
 aagaagccaa gactaggctg ggcacagtgg ctacgcctg taattccagc cctcgag 237

<210> 55
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 55
 gaattcgcgg ccgcgtcgac gaagaaagaa aaactagcaa acatttgaga aatttagcaa 60
 ctgttttttt ttaaataaag caatttgttc taataattat ttcctaatac tcttaaaata 120
 cgctgtcatt aacggcagag aaagctcttt atttcctttt gaattttaat actgggtaga 180
 aatataattt acaatgaaag tcagcaggaa agaactcgag 220

<210> 56
 <211> 247
 <212> DNA
 <213> Homo sapiens

<400> 56
 gaattcgcgg ccgcgtcgac caaaaataaa taagctcagg aataaagtga attggaagac 60
 agaaataatt tctgaaatga accagatata tgaggataat gataaagatg cacatgtcca 120
 agaaagctat acaaaagatc ttgattttta agtaaataaa tctaaacaaa aacttgaatg 180
 ccaagacatt atcaataaac actatatgga agtcaacagt aatgaaaagg aaagttgtaa 240
 tctcgag 247

<210> 57
 <211> 229
 <212> DNA

<213> Homo sapiens

<400> 57

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gaattcgcgg ccgcgtcgac gtgtgttggg aaacactgtg ggctcaatga aaaacccctt 60
tcggcccagc cctttgcctc cacattccag cttggcgccc tcagccacac cactctggat 120
gagttccaag atcttgttgt actgtttctt atcaatctgg ggacctgct cagtgggtgg 180
gtcaaaggga ctcccacta cgcgcctctt ggcccgtcc acactcgag 229
```

<210> 58

<211> 146

<212> DNA

<213> Homo sapiens

<400> 58

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gaattcgcgg ccgcgtcgac tgaggagag attggtcagt ctgttcaaaa ttacagatag 60
gaagaagagt aagtctctgt gttctctcgc acagtagggt aactatgggt aacaatattg 120
catatttcaa aacagctggc ctcgag 146
```

<210> 59

<211> 139

<212> DNA

<213> Homo sapiens

<400> 59

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gaattcgcgg ccgcgtcgac cctgcacctt gtctgtctga caaacacctt cttatttgat 60
gctattcaag cctcacctcc tcttactctg cactccttcc tactttcacc ttccagatga 120
aaataaccac ttccctcgag 139
```

<210> 60

<211> 325

<212> DNA

<213> Homo sapiens

<400> 60

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gaattcgcgg ccgcgtcgac cctttccggt tgatttgtca ctgcttcaat caataacagc 60
cgctccagag tcagtagtca atgaatatat gaccaaatac caccaggact gttactcaat 120
gtgtgcccag cccttgccca tgctgggctc ccgtgtatct ggacactgta acgtgtgctg 180
tggttgcctc ccttccctct ccttctttgc cctttaactg tctttctggg gttttctctg 240
ttgggttttg tttggttttt atttctcctt ttgtgttcca aacatgaggt tctctctact 300
ggtcctctta accatgggtg tcgag 325
```

<210> 61

<211> 241

<212> DNA

<213> Homo sapiens

<400> 61

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gaattcgcgg ccgcgtcgac tcttattcct tcttgaaaat ttttaagtgt atggttttat 60
atagttcagt tctttgagat ttttgaaaag agtattttca gtaataaaag tgccatctct 120
atctcttaaa catttattac aacaattgtt ttaaaataga aaaaataaaa tgcttctatt 180
ttaccttttt ttcatttcag aagcattatt ctgtttatta acagtgtccc atctcctcga 240
g 241
```

<210> 62

<211> 392

<212> DNA

<213> Homo sapiens

<400> 62

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gaattcgcgg ccgcgtcgac gcacgtggca ctggaggagc ggcgttttgc acccccaggc 60
ttcagggaag ttctcaatag aaaacccatt agttgtctca tatgactggg attaaactctg 120
```

```

acttaaaaaa aaaatcaagc cagaaacagt gtgttgagca agaaaggaaa aaagattcct 180
tattaaaagt tcaaacataa acagaaggct caggacctcc ttgactacct ctctttgccac 240
gtggcccagg agaaaccatg gctggcagtt taacagccac cctcctgctt ctgctctgtg 300
cattttgttg atgcacatcc acgtttttct tttcttttga gacagggtct cactctgttg 360
cccaggctgg aatgcaatgg cgcgatctcg ag
392

```

<210> 63

<211> 293

<212> DNA

<213> Homo sapiens

<400> 63

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gaattcgcgg ccgcgtcgac aggtccagtt ttctgtatg cattggatgg aagtgcagtt 60
agaaagcagt gttctccatc ctttttataa tgctgaggat gaatcaaata ttcttttacc 120
taaactacct acactgccaa aaaactatag caacacctca aaaatattta gtgaagaaaa 180
ttctgatgaa attattaagc tcttgggaga cgtcaggctt aatattctcg tccttggagg 240
aagctctgga tttattgagc tttatgctta tggaatgttt aaaattgctc gag 293

```

<210> 64

<211> 449

<212> DNA

<213> Homo sapiens

<400> 64

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gaattcgcgg ccgcgtcgac ccccttccaa aagcaaaaag aagcctcgaa agtgaaatgt 60
atctggaagg tctgggcaga tcacacattg cttccccag tccttgtcct gacagaatgc 120
ccctaccatc accactgag tctaggcaca gctctccat cctcctgtc tccagccctc 180
cggagcagaa agtgggtctt tatcgaagac aaactgaact tcaagacaaa agtgaaatgt 240
cagatgtgga caagctagct ttttaaggata atgaggagtt tgaatcatct tttgaatctg 300
cagggaaacat gccaaaggcag ttggaaatgg gcgggcttct tcctgccggg gatattgtctc 360
atgtggacgc tgctgcagct gctgtgccc tctcatatca gcaccaagt gtagatcaga 420
aacaattga agaacaaaag gaactcgag
449

```

<210> 65

<211> 247

<212> DNA

<213> Homo sapiens

<400> 65

```

gaattcgcgg ccgcgtcgac ggggctggag tataatagga gcggagagat agaaaagaga 60
ggcaaaaggaa gatcacagcc atcacaagc aatctaggca gaaagtgata ggaaaaaaag 120
gagaaactat tcattctcaa ctattgctgg tatacacaaa cctctgaaaa tagccaatta 180
gtgttagatg ttctatcagg cgtggggaat ggggatggtt acaaaattca tcctccagtt 240
tctcgag
247

```

<210> 66

<211> 227

<212> DNA

<213> Homo sapiens

<400> 66

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gaattcgcgg ccgcgtcgac cgcggccgag tcgacctgct ggcagggttt ttttgtttta 60
tttgtttgct tttttttaa ttaactgttt tgagctttga atacttaagg ctttagaggg 120
agaacccaat tttcaattat gttggctttt tataaagctt gagttatgta agattttaa 180
aaaagtttgc taccaagatg attgccttat tgaatagatc actcgag
227

```

<210> 67

<211> 384

<212> DNA

<213> Homo sapiens

<400> 67
 gaattcgcg cgcgctcgac tgacattcct gttggagact tacatccagg ggaacagctg 60
 gaaaaaatgt tgtatgttcg ctgtggaaca ggggggtcca gaatgtttct tgtatatgtt 120
 tcttacctga taaatacaac cgttgaagaa aaagaaattg tttgcaagtg tcacaaggat 180
 gaaactgtaa caattgaaac agtctttcca tttgatgttg cgggttaaatt tgtttctacc 240
 aagtttgagc acctggaaaag ggtttatgct gacatccctt ttctgttgat gacggacctc 300
 ttaagtgcct caccctgggc cctcactatt gtttccagtg agctccacct tgctccatcc 360
 atgaccacag tggaccagct cgag 384

<210> 68
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 68
 gaattcgcg cgcgctcgac ctaaaccgtc gattgaattc tagacctctc acccaagctc 60
 ctctctctctt gcagtgaaga cctccccctc cagtaacctt tttttcctgt gaaaaacctt 120
 caacctcttt tcaggacctc tctcaacccc atcttcccat ttgtgtccca ccagtccctt 180
 ccccaacctg ccaatatttc aataacccca cgcaccacag ttgctgcgcg ttttctgccc 240
 caatgcacat accctggaac ctggtttctc tccttcgttg gggcccaacc cccctctctg 300
 ag 302

<210> 69
 <211> 184
 <212> DNA
 <213> Homo sapiens

<400> 69
 gaattcgcg cgcgctcgac gatacaatct gcaaatgata aaaatttcga cgatgaagat 60
 tctgtggatg gtaacagacc ttctctctgt agttctacat catccaaggc tccaccaagt 120
 tctcggagaa acgttggaat gggaaccacc cgcgggcttg gttcatccac ccttggacct 180
 cgag 184

<210> 70
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 70
 gaattcgcg cgcgctcgac caaaaacaaa aaaaaacaaa aaaacttttc ccacttcttt 60
 ttatatgtgt gtgtcttctg aggttatcac ctgaagggat atttatggac tgaagagttg 120
 ttagtattat ttgtgtatct ttactttgt tagaatacat acttatcttc taatgaaatt 180
 attccagaaa actttaaaag agtcatttaa attgcctgtt agtatagtta taaaattgac 240
 agagcagtgg caaaaactcg ag 262

<210> 71
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 71
 gaattcgcg cgcgctcgac aaaggatgga caacaaaaac aaatgcctat gtgtgataac 60
 catgatgatg gtgaaactgc agcaatcatt ttatgcaatg tctgtggaaa tttatgtaca 120
 gactgtgaca gattccttca ccttcacgca agaaccacaa ctcgag 166

<210> 72
 <211> 370
 <212> DNA
 <213> Homo sapiens

<400> 72
 gaattcgcgg ccgcgtcgac cctaaaccgt cgattgaatt gtaagccaaa ctgtcggttaa 60
 gtcgggggact gtctgtatac cctaaagtga tttccttata cttcccaaaa ccgactcttc 120
 ctatattatc tgatttaaga aataggagta ataccactta ccttacagct tcctgggtca 180
 ctctctcatt gagttaacca atagatcttt gaattcctaa cctttttcct atccatcctt 240
 cccttttcag tgttctgttc ctatgctagt tcatgccttc ttacatctct tgcagagggt 300
 tttccatatt ctgcgaactt gtctccttgc gtctactctt cagtctgtct tccttaccac 360
 cagactcgag 370

<210> 73
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 73
 gaattcgcgg ccgcgtcgac ggcaccaagc ggaaaataaa ctccaacctg ggcaacagag 60
 caagactctg tctaaaaaaa aaaaaaagtt aatggcattt ctatccctgt cttgctaact 120
 agaaacctgg gaggagactc aagactgttc tcttcagtea gcttcccatg cctattttat 180
 atcccaactag tttattttat gagctatgtc tcaaaatcat actcttctct ctttgtctct 240
 cttacttgat cattgggtcag gctgtacctc tcagccaccc tctcgag 287

<210> 74
 <211> 212
 <212> DNA
 <213> Homo sapiens

<400> 74
 gaattcgcgg ccgcgtcgac ccaatgagga aggcaaagaa aatcgagacc gggacagaga 60
 ctatagtcgg cgacgtggtg ggccaccaag acgggggaga ggtgccagcc gtggacgaga 120
 gtttcgaggt caggaaaatg gattggatgg caccaagagt ggagggcctt ctggaagagg 180
 aacagaaaaga ggcagaagga taccggctcg ag 212

<210> 75
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 75
 gaattcgcgg ccgcgtcgac acccctcccc catccaactt tcaggttatc cgaaaataaa 60
 gactagtatt aaattgacaa gttgtcgga aattttgcag caataaaggg ggcaagtggg 120
 aggcagagca ctttctagat cttgactttt ccattggcca tgaagatca ctaaactgtt 180
 cattttattt tcgacagtta gcacctgctg ttgatataata ctaaatggcg ggaacatgtt 240
 ttttttgttg tttgtttgtt ttgttttgtt ttgtttttcg agacggagtc tcgctctgtc 300
 cccaagctct cgag 314

<210> 76
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 76
 gaattcgcgg ccgcgtcgac aagtgagcac acgaaatcaa agcatgaaag cagaaaagaa 60
 aagaggaaaa actatccaga atggcaggga attgtttgag tcttcccttt gtggagacct 120
 tttaaatgaa gtacaggcaa gtgagcacac gaaatcaaag catgaaagca gaaaagaaaa 180
 gaggaaaaaa agcaacaagc atgactcaac aagatctgaa gagcgcaagt cacacaaaaa 240
 ccccaaatga gaaccagagg acctcgag 268

<210> 77
 <211> 295
 <212> DNA

<213> Homo sapiens

<400> 77

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gaattcgcgg ccgcgtcgac aattttaagt taagtcccat atgaaggctc aaaagagcgg 60
taaagaacaa cagcttgaca ttatgaacaa gcagtaccaa caacttgaaa gtcgtttgga 120
tgagatactt tctagaattg ctaaggaaac ggaagagatt aaggaccttg aagaacagct 180
tactgaaggc cagatagcag caaatgaagc cctgaagaag gatttagaag gtgttatcag 240
tggtgtgcaa gaatacctgg ggaccattaa aggccaggca gctcaggccc tcgag 295
```

<210> 78

<211> 148

<212> DNA

<213> Homo sapiens

<400> 78

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gaattcgcgg ccgcgtcgac acatactctg cattttccac tgttactttg ataccatttt 60
tagttgcgaa acacgtggca tgttctcgga aatgaatagc tttcaagata gtggagagat 120
tcctaactgt gtcaaggctg agctcgag 148
```

<210> 79

<211> 224

<212> DNA

<213> Homo sapiens

<400> 79

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gaattcgcgg ccgcgtcgac ataaatttgc tgcggctgga ctcaaggaaac atctcaatgt 60
ctttctctct gaccttggga gcccacggga gccctttggg gcaagtcagc ctgtcagtct 120
gtgggtgctg tagcggggga ggcacactt catcccgctt caggggaaac gtctccccc 180
ccagactggt gtcacatca ttctctctt cctctactct cgag 224
```

<210> 80

<211> 288

<212> DNA

<213> Homo sapiens

<400> 80

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gaattcgcgg ccgcgtcgac gtttcaaata aatgcttaaa gtttaatat acttgaaggc 60
aagagaagac aaagaacccc caaaatatta gaaaagatta taaaagacat tataagggtg 120
gaattcttac tctttgaatt ccatatttgt ttattatttt actaatgttc taatatttaag 180
ttcatgataa gtcacacaca tatgttttct ccacactctt tccacctatc agtttttcta 240
acatattatt gttttaaaat tcttaatttt attacagcaa tcttcgag 288
```

<210> 81

<211> 251

<212> DNA

<213> Homo sapiens

<400> 81

```
gaattcgcgg ccgcgtcgac tttgaaggct gtttgttgtt gttgattctt agaggcagat 60
atctgactac gttgtgttta tacttttagct atatgaatgt ttacctattg aaaatactgt 120
tttattaaaa attactttgt tctttatacc ttaggagata aatgtacatt ttaaaagtgt 180
tcctcagtcg ggtgaggtgg cttatgcctg taagtccaac acttggggag gccgaaccag 240
gaggactcga g 251
```

<210> 82

<211> 498

<212> DNA

<213> Homo sapiens

<400> 82

```

gaattcgcgg ccgcgtcgac gtccatggct gaggagaaga ggaagcgaga ggaagaggag 60
aaggcacagc aggtggccag gaggcaacag gagcgaaagg ctgtgacaaa gaggagccct 120
gaggctccac agccagtgat agctatggaa gagccagcag taccggcccc actgcccag 180
aaaatctcct cagaggcctg gcctccagtt gggactctct catcatcaga gtctgagcct 240
gtgagaacca gcagggaaca cccagtgcct ttgctgcccc ttaggcagac tctcccgag 300
gacaatgagg agccccagc tctgccccct aggactctgg aaggcctcca ggtggaggaa 360
gagccagtgt acgaagcaga gcctgagcct gagcccgagc ctgagcccgga gcctgagaat 420
gactatgagg acgttgagga gatggacagg catgagcagg aggatgaacc agagggggac 480
tatgaggagg tgctcgag                                     498

```

<210> 83
 <211> 277
 <212> DNA
 <213> Homo sapiens

```

<400> 83
gaattcgcgg ccgcgtcgac cttcagtcca tttacatat ggccaagttt gcttcctaaa 60
agttcagatg ttgtcatatt gctataatgc tcaagactct tccactcccc actgcctaag 120
gaattcagta cagactttctc agggcgcttt gaacacaaat ccaaccactc tacgcagccc 180
tatctcccac tgctccctcc acaagcttca ttctttatta agatggggac tatctgggat 240
gcagatagcc agccacatct tccccctctg cctcgag                                     277

```

<210> 84
 <211> 526
 <212> DNA
 <213> Homo sapiens

```

<400> 84
gaattcgcgg ccgcgtcgac ggatggtgaa cgggcaggag catctagtga ttgatggctt 60
ctgggtgttt ttaacgagag tttgaacaaa gactcagaaa tgggttttaa aataacagtc 120
ccatgtggcc cacatagaaa atattgggat attttaaggt gtggattcac tttcccatat 180
ttaaacactt gtttctactt ggtgaaatac acaggtgaca agtcaacttc aggaataatg 240
gtttttttta gaagatggga gttgggaatt tcttatattt tctctcact tcttaaaacc 300
acctttgtgc cctgtcttta cattaggaaa aatggaaagg tgattaaaca cggccggttag 360
gagcctaataa tctaggtcag agtcccgtat gaaagaaatc agataagttg agagagggcg 420
tgtgcagggt ggaaatggtg gcgtccatct ctgctggggc gtcgatgcca cctggctgga 480
cagggtggagc ctggaaggta gggaggctcg gaacatgaag ctcgag                                     526

```

<210> 85
 <211> 307
 <212> DNA
 <213> Homo sapiens

```

<400> 85
gaattcgcgg ccgcgtcgac gtaaccccg cccccctcct cccccaccg ctggaacca 60
cgactccgcc gccacacctt gcatttgact gctccaagta cctcaggaaa tgacctcatg 120
cggctccagc acgttcgcgt ccattctgtt tatttccagc gtttggcccg tgggagcgat 180
gagcgacact gttcagcccc tgctttcagt tctttcaggg agttctcagc tggctctcag 240
aggttcccac acgctgcttc ccacagcagc tgcaaccattg tacattcca cagcaacaga 300
gctcgag                                     307

```

<210> 86
 <211> 194
 <212> DNA
 <213> Homo sapiens

```

<400> 86
gaattcgcgg ccgcgtcgac cgaggatttg gtgtaggaag agaaaaagag attgatgggg 60
taaatctgac tcacacatat atcatcaact cattttcaag agatttgtcg tcatcaattg 120
attttcaaca gagacacgag agctagtcca tgaggaaagg aaagcatata acaaatttgc 180

```


tgggactact cgag

194

<210> 87

<211> 223

<212> DNA

<213> Homo sapiens

<400> 87

gaattcgcgg ccgcgtcgac atttggttct ttcctactca gaactactca gaaacaacta 60
tatatttcag gttatttgag cacagtgaac gcagagtact atgggtgtcc aacacaggcc 120
ttcagatcac aaggggaaca caattacata ttgggctaga ttttggccag ttcaaaatag 180
tatttggttat caacttactt tgttacttgc atcaatcttc gag 223

<210> 88

<211> 265

<212> DNA

<213> Homo sapiens

<400> 88

gaattcgcgg ccgcgtcgac gacaacatca aaagcaactg atgactctgg aaaacaagct 60
aaaggctgag atggatgaac atcgcttcag attagacaaa gatcttgaaa ctcagcgtaa 120
caattttgct gcagaaatgg agaaacttat caagaaacac caggctgccca tggagaaaga 180
ggctaaagtg atgtccaatg aagagaaaaa atttcagcaa catattcagg cccaacagaa 240
gaaagaactg aatagttttc tcgag 265

<210> 89

<211> 176

<212> DNA

<213> Homo sapiens

<400> 89

gaattcgcgg ccgcgtcgac aaattggaaa ctgtagaagt gttaatgtgt cctatggact 60
caatagcaga gtttattttt gtttttaatg gcaaggcttc tagagtcaat gattgtatga 120
gtttgtact ctggctgtgc ttacagcttc atccaagtac aaaggaagaa ctcgag 176

<210> 90

<211> 196

<212> DNA

<213> Homo sapiens

<400> 90

gaattcgcgg ccgcgtcgac ggtgtgttat tgtttttatt ggctgtacct ggtagaattg 60
aaaaatcagc atttctattg tagcctacta atttcagtga aatatttctt tagaaatata 120
aaatctggaa ctttccatca ttatgcctcc ccaaaataat agaggacttt acacacagat 180
aacacctgcc ctcgag 196

<210> 91

<211> 348

<212> DNA

<213> Homo sapiens

<400> 91

gaattcgcgg ccgcgtcgac ggggtgtgga aggagtgggt ggagctggcc tccctcagaa 60
tcaagctggg ctcacttgtg atttaggagg tatgaagtgg ggaatcagtc tttgtctacc 120
ttctgttccc tgcaccacaga cctcctccac tttcttaggg taagaaatgc ctttgatagg 180
ggtaaagcct ttctttccag agtttgagat cagagacttc aatatgcaaa gtcttggggg 240
atgtctgacag atcagcacac gtgcttttta tatttaata attctcaca cctatgtggc 300
ttgtcaggaa tgaagaatct aaagcttatt gtgctagggg cgctcgag 348

<210> 92

<211> 350
 <212> DNA
 <213> Homo sapiens

<400> 92
 gaattcgcg cgcgctcgac gtctaatttc cttagtgcct gataatTTTT tattacggtc 60
 tggagatttt atttaaaatt acttgtcaga ataattttga ggcttataat aaacatactt 120
 tacttttaag agcaaaagttt gcttctttac ccaggagcat tgtcagtcag ggaacaactt 180
 aaaccaagtt cettgagaac acattctaaa ttttttagaa cagcatctta ataaacaaaa 240
 acaacactca cgtttcagat tttatatttt tgtttcccaa aggatttata tcaactgtatt 300
 tccaagtcat tgcattgtta atgtctttca aatcaacatc tctgctcgag 350

<210> 93
 <211> 286
 <212> DNA
 <213> Homo sapiens

<400> 93
 gaattcgcg cgcgctcgac tttacatatt gtctattgct gctttttacac aagaacagca 60
 gaggttgtga gttgagacag agaccatacg gaccaccagg cctaaaatat ttactgtctg 120
 actctttaca gaaaaagttt atctggcctc tagtctaacc tatcaatttt aaaaaaacag 180
 ctttttggag aaagaattca catactgtgc aattcaccca tttatatata attcaatggg 240
 ttttagtata ttcacagaga tgtgcaacca ccaccccgat ctcgag 286

<210> 94
 <211> 140
 <212> DNA
 <213> Homo sapiens

<400> 94
 gaattcgcg cgcgctcgac gcatgagcca ccatgcctgg cccctttctt tcatctctcc 60
 taattttttc gacattctcc taccattttt ctcttttctt gggccttcaa tttgtgcccc 120
 cctccacccc caccctcgag 140

<210> 95
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 95
 gaattcgcg cgcgctcgac cgagtatttt actttattct ttttaagaaac tgagtcattt 60
 gtctctgtgt gtttccctt atctggattt tgtaatcata tcttggaatg tggtttcaga 120
 ggtgtctctg tcttttgtat ttcattgtcag tttatactcc agtcgataag ctcgag 176

<210> 96
 <211> 601
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (191)

<400> 96
 gaattcgcg cgcgctcgac aaacaaaaga atcaaaactac gctaaattga ttgaaatgaa 60
 tggaggagga accggctgta atcatgaatt agaaatgata agacaaaagc ttcaatgtgt 120
 agcttcaaaa ctacagggtc taccocagaa agcctctgag agactacagt ttgaaacagc 180
 agatgatgaa natctcattt gggttcagga aaatattgat gaaattattt tacaactaca 240
 gaaatttaact ggccagcaag gtgaagagcc cagcttgggtg tccccaagta cttcttgtgg 300
 ctcaattgact gaaagactac tgagacaaaa tgcctgagctg acagggcata tcagtcaact 360

```

gactgaagag aagaatgact taaggaaacat ggttatgaag ctggaagagc agatcagggtg 420
gtatcgacag acaggagctg gtagagataa ttcttccagg ttttcattga atggtggtgc 480
caacattgaa gccatcattg cctctgaaaa agaagtatgg aacagagaaa aattgactct 540
ccagaaatct ttgaaaaggg cagaggctga agtatacaaa ctgaaagctg aaccgctcga 600
g                                                                                   601

```

```

<210> 97
<211> 347
<212> DNA
<213> Homo sapiens

```

```

<400> 97
gaattcgcgg ccgcgtcgac gaagggaacg ttcagctgga aactggagat aaaataaact 60
ttgtaattga taacaataaa cataactggtg ctgtaagtgc tcgcaacatt atgctgttga 120
aaaagaaaca agcccgtctg cagggagtag tttgtgccat gaaggaggca tttggcttta 180
ttgaaagagg tgatgttcta aaagagatat tctttcacta tagtgaattt aaggggtgact 240
tagaaaacctt acagcctggc gatgatgtgg aattcacaaat caaggacaga aatggtaaaag 300
aagttgcaac agatgtcaga ctattgcctc aaggaacagg gctcgag 347

```

```

<210> 98
<211> 351
<212> DNA
<213> Homo sapiens

```

```

<400> 98
gaattcgcgg ccgcgtcgac cttacctgtc ctaggggagt aggcaagcac ttccactagg 60
gagggggttg gggaaaggaa tgacacatga catacatggc atacacatta agcagttgat 120
catatgtctg actgggttcc agtttcttgg gaatgttggg ccccttgctc aggccttgc 180
attttaaaact aaaaaatttc gtctattgtt tttagtaact tcattttatg tctccataa 240
caagttagaa ggatgtatct gctaccattt attcctataa ttttagaaag ttggggcttg 300
acattatact catttagtga gagtagatgc aaaaaagtgc agggggtcga g 351

```

```

<210> 99
<211> 446
<212> DNA
<213> Homo sapiens

```

```

<400> 99
gaattcgcgg ccgcgtcgac gaagaaggaa ggcgcgagtg aggaaaggag gtactgtaga 60
tgccctccaa atccttggtt atggaatatt tggctcatcc cagtacactc ggcttggtg 120
ttggagtgtc ttgtggcatg tgcctgggct ggagccttcg agtatgcttt gggatgctcc 180
ccaaaagcaa gacgagcaag acacacacag atactgaaag tgaagcaagc atcttgggag 240
acagcgggga gtacaagatg attcttgttg ttcgaaatga cttaaagatg ggaaaaggga 300
aagtggctgc ccagtgcctc catgctgctg tttcagccta caagcagatt caaagaagaa 360
atcctgaaat gctcaacaa tgggaatact gtggccagcc caagggtggtg gtcaaagctc 420
ctgatgaaga aacctgacg ctcgag 446

```

```

<210> 100
<211> 266
<212> DNA
<213> Homo sapiens

```

```

<400> 100
gaattcgcgg ccgcgtcgac ccgtccctct acgcgttttg gtccctgttt ggtgctttct 60
gtttgcagct acggcagtg gtagatcttg gcataggaac caatcagaaa caatcgcttc 120
agcaatcaag accattgttc atcatggagg aacctatgga tacctctgag cctctatctg 180
cattaccatt cactgggcag cagtcttttg agccaagtgg caaatttga cagtatccat 240
cgatgcagat gaaccacata ctcgag 266

```

```

<210> 101

```

<211> 290
 <212> DNA
 <213> Homo sapiens

<400> 101
 gaattcgcgg ccgcgctcgac aaaaaagtta ctgtatttta gactaaatgg gaaagataag 60
 agatgatgct acagagtaat tcagaggcta aaacatgtag gggctcttga ggccatattt 120
 ctttaaaaaa cagattaaaa aaacttattt tgggaaaaaa ctttcggaga tggccaaaga 180
 acatgacaac tgccatcata cccttcattt gtattcattc attattaacg ttttcctaca 240
 tttgcttatt tctccgtata ggggtatttt tcaagactgc tgatctcgag 290

<210> 102
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 102
 gaattcgcgg ccgcgctcgac gcagactgtg caagctccca gctgttcctt cttctgctgt 60
 ccctagccaa caaacacagt ggcatttaca acttttggca tatagaaatt atatgtaaaa 120
 attcaggtag tactatttct tttagtcctg ttagtctctt tctctcteta tatatatgta 180
 tctctggaca tgcattctctg gttatatctt gaggtctttg ctgcaaccct cgag 234

<210> 103
 <211> 240
 <212> DNA
 <213> Homo sapiens

<400> 103
 gaattcgcgg ccgcgctcgac ggggcccttg tcaagcttga aaatggctct actaagtaag 60
 ttccggatga aattaaagaa aacactcctt aggtccttct tttctgcttg ttcttggtca 120
 cctacaatgg gacgagactt aaggcaagat tcatcgaggag ctacaggagg ttcattggca 180
 ggaaagtggg tgggtgccagc agcttcaacg aagctccgtg catcccttct tcccctcgag 240

<210> 104
 <211> 154
 <212> DNA
 <213> Homo sapiens

<400> 104
 gaattcgcgg ccgcgctcgac cgtcgattga attctagtcc tgtttctttt cctccccaac 60
 aaacaccgtg ttccaagaaa tgccaagcct gaagaagaat gaaggtagggt ctgaaatttt 120
 cagaggccca agcaagactc tggaaatctct cgag 154

<210> 105
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 105
 gaattcgcgg ccgcgctcgac ggtgttaggg gtttaaaggg agttgactga ataagggtcaa 60
 gatctgctgg tcttgaaaaa gaaacatctt cattatttca aatgtgtaac aactactgct 120
 tgctatttgg cactatctgc ttctgtgctt catattaaat cctttaactt gcttcaatgt 180
 gcatgtgctg gattgagagc cacttttgtc cccctggggc cacaggaggg tcccggcgag 240
 gacccccgcc ctctggctcc cggggcgctc gag 273

<210> 106
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 106

```

gaattcgcgg ccgcgtcgac gtggcctggg ctccctaatac aggtaaattg tctccaaagg 60
actagtaaaag gtgactgggt catcctcctg cccagggac actgattaga gaaaatccgt 120
ctgtgctggc aatacggcag tgcctggacac tcggaattcc ctgaaggca aaagcaagga 180
acagagcgtg attaggtaact ggacacctgc caagtgcctg gctctctcca gtttacagat 240
gaggaaactg aggcctcctg ag
262

```

<210> 107

<211> 259

<212> DNA

<213> Homo sapiens

<400> 107

```

gaattcgcgg ccgcgtcgac tgatgggtata agtattttacc tgggacaagg ggcttctctta 60
tttggctaaa ttatctaaaa tgcataaggaa gaatagaact tttagttggc ttttttctt 120
ttatctatct atctatctat ctatctatct atctatctat ctatcatctc gttctattgc 180
ccagactgga gtgcagaggt gcaatcatag ctactgcag cctagaactc ctgggtctcat 240
ycaattgtct cacctcgag
259

```

<210> 108

<211> 260

<212> DNA

<213> Homo sapiens

<400> 108

```

gaattcgcgg ccgcgtcgac ggtttttacca tcttggttaa caccgtgaaa cctgtctctt 60
actaaaaata caaaaaatta gctgggatta caggcgtgag ccaccgcgc cgcccaaat 120
aaaattttta aaaggatatt tacatcagtg tagtatgtga agtaacaag aaaaagataa 180
aactcacttt ttaagtaaaa acagtcagtg gcttgaagta tgttgaatc tttatcagaa 240
aagtatggga aggactcgag
260

```

<210> 109

<211> 255

<212> DNA

<213> Homo sapiens

<400> 109

```

gaattcgcgg ccgcgtcgac ttggattaca ggtccctgct gccacgccc gctaattttt 60
gtatttttag tagagatggg gtttctccat gttggctcag ctagtctcga actcctgacc 120
tcagatgac tgccagctc ggccctccaa agtgatggga ttacaggcat gagccattgc 180
gcttgcccca ggacatttat ttttattgct aaatacatct cagtcattta tgtatttgtt 240
tttcccccc tcgag
255

```

<210> 110

<211> 423

<212> DNA

<213> Homo sapiens

<400> 110

```

gaattcgcgg ccgcgtcgac tcttccctag ccttggtcgt cgcgcgccacc atgaacaaga 60
agaagaaacc gttcctaggg atgccgcgc cctcgggcta cgtgccgggg ctgggccggg 120
gcgccactgg cttcaccacg cggctcagaca ttggggccgc ccgtgatgca aatgacctg 180
tggatgatcg ccatgcaccc ccaggcaaga gaaccgttgg ggaccagatg aagaaaaatc 240
aggctgctga cgatgacgac gaggatctaa atgacaccaa ttacgatgag tttaatggct 300
atgctgggag cctcttctca agtggacct acgagaaaaga tgatgaggaa gcagatgcta 360
tctatgcagc cctggataaa aggatggatg aaagaagaaa agaaagacgg gagctatctc 420
gag
423

```

<210> 111

<211> 203

<212> DNA

<213> Homo sapiens

<400> 111

```
gaattcgcgg ccgcgtcgac attacctcat aagcattaac aaatcaggcc caaagagcgt 60
aagtcctaga aatttggttt aaagcagccc tagtcattgt gctggtgcta ccgccttgtt 120
ttaggagcct gcctcctgtc agtatgaaac cctcacctga aaaatgccag cctggacacc 180
aaacactgag cccctcttc gag 203
```

<210> 112

<211> 257

<212> DNA

<213> Homo sapiens

<400> 112

```
gaattaagaa ttccgcggccg cgtcgacaaa aaaaaaaaaa aaaggatacc aaaattctca 60
agtcaaatta taagggtttt aacattccca tttctacacc acgtgcaaga aaaacaaaat 120
ccttggtttc tgctgcctt tatggtccgt tctcattttc agccccctt cctcattcta 180
ctctattaat tatgccttta tatggatgca aacttgtaaa atatgtggcc tatttttgtt 240
gtatacgtgg tctcgag 257
```

<210> 113

<211> 348

<212> DNA

<213> Homo sapiens

<400> 113

```
gaattcgcgg ccgcgtcgac gttggaggag gaggaagagg aagtcgaaga ctgtggcttc 60
ctttttttgt tacttgagga ctcgtcgcta cgggtggaca ggtctttgac ttttgaggat 120
ttgctggttt tgggttttga tggcttgagg gatggggaag ggatgacggc tggatcggg 180
gacacggcgg atggggcctt gaagggtgag tccatgatgc tgagggttgc ggccacatga 240
gggaaagctg tgggtgtgga catgagggcg ctccgggtccg gcgatgtcac gaaagctgcg 300
tttgagagca tggctgatgt catcatgtaa gaagaggtga gcctcgag 348
```

<210> 114

<211> 303

<212> DNA

<213> Homo sapiens

<400> 114

```
gaattcgcgg ccgcgtcgac gggattacag gcataagcca ccgtgcccg cctgtagatt 60
tcatttttag aagggtttgt ttaacagtt taaatttgta actcacataa aaaaaactta 120
ttataagaaa gagaaactag gtgttaggat aagtaaaaca ataagcattt ttgtctcttc 180
tgtttttgta gattttaatt gtttaactta ataaaatcac attaatggg gttcaactac 240
ttcacatttg taataacttt ggggtgttaa attgagatga aattcatcag gggaaaactc 300
gag 303
```

<210> 115

<211> 214

<212> DNA

<213> Homo sapiens

<400> 115

```
gaattcgcgg ccgcgtcgac aaaaaagaaa ggaagtggca tatttggtaa attgataaat 60
taccactgtc aaattatatt ggtgagtcta tatctattgt tgtccccaga tgttgccttt 120
gcaagaatta gtgtaaaatt ggaaaaaata ctcaatgttg aaagctgtca ttgttgagat 180
ctttatgaaa ttattgtgcc catgtccgct cgag 214
```

<210> 116

<211> 230

<212> DNA

<213> Homo sapiens

<400> 116

```
gaattcgcg cgcgctcgac tgcagatttt tctcttcacc tcatcaacag gtgatatagc 60
ccttttggtt gcttggcttt aagtacagtt cttagattca gctcctctac tttgtcaagt 120
ctaaatacta ttcctcagtg atgctgataa ccagcaaagt tttagtttct atgttgggca 180
tatttttggg gcagccctgt aaggatgtgc tccatggtac aagactcgag 230
```

<210> 117

<211> 195

<212> DNA

<213> Homo sapiens

<400> 117

```
gaattcgcg cgcgctcgac attaatTTTT cctgagagca gtagacttga ttagatgccc 60
ttttgtagtg tcatcaaata ttagattatg agctcaaaga ttttatctct atatacacia 120
tttctaatat taaaaaaaat agtcggggccg ggtgcggttg ctcaggcctg taatccagca 180
cttaaggggc tcgag 195
```

<210> 118

<211> 460

<212> DNA

<213> Homo sapiens

<400> 118

```
gaattcgcg cgcgctcgag aagatcctat tcaagagctg accatagaag aacatttgat 60
tgagagaaag aagaaattac aggagaagaa gatgcatatt gcagccttgg catctgccat 120
attatcagat ccagaaaata atattaaaaa attgaaagaa ttacgttcta tgttgatgga 180
acaagatcct gatgtggctg ttactgttct aaagctggta attgtttctc tgatggagtt 240
atttaaagat attactcctt catataaaat cgggcccctc acagaagcag aaaaatctac 300
taagaccgga aaagaaaccc agaagttaag agaatttgaa gaaggcctgg ttagccaata 360
caagttttat ttggaaaatc tggaaacaaat ggttaaagat tgggaagcaga ggaagctgaa 420
gaaaagtaat gtagtttctt taaaggcata cggactcgag 460
```

<210> 119

<211> 239

<212> DNA

<213> Homo sapiens

<400> 119

```
gaattcgcg cgcgctcgac cagacagatc aaatggaaaag gctcccccat cctgtcctct 60
acaccacctt gcagctgggc ctcagcaact gggcttttaa tttcagtcta attcaagtea 120
gcagcatagg gcagctcctg ggaaattggt ttacacatgc ggacaagccc agtagcccag 180
agctaacca ctcaccatcc ctgaccacag aggagcagat aaggaagcaa gaactcgag 239
```

<210> 120

<211> 191

<212> DNA

<213> Homo sapiens

<400> 120

```
gaattcgcg cgcgctcgac tgggcatcat ctccataatc ttttcataaa gcatcaatga 60
tttcattatt cctctaccca aacttttaca gaagratatt tttttttgag ccagtatctc 120
gtcccatcac ccatgctgga atgcagtggc atgatcatag ctactgcag cctcaacctc 180
ccaggctcga g 191
```

<210> 121

<211> 227

<212> DNA

<213> Homo sapiens

<400> 121

gaattcgctg ccgcgtcgac tttcttttga tcaactatgag gtgtcactat gtggtagtag 60
cgagggtcaga ctgtagcgag tgtttaaaagt ttgcttcctt tgttttctgg gcttgtgggg 120
ctttttgtgg tacctgccct agcctagtca gtcattcccc atgctgcccc cttaggctag 180
agatgcccta ccgccctcag gcctcgctga atgtgccaaa cctcgag 227

<210> 122

<211> 166

<212> DNA

<213> Homo sapiens

<400> 122

gaattcgagg ccgcgtcgac tgactcatag tcaagaccct ccaccagtaa catatatagg 60
cgagccagcc aggagaccac tacaggaaac actccattta tccacctga cttcccactt 120
ggctgcaccc tcaaccattg aaatgaattt gacctgata ctcgag 166

<210> 123

<211> 223

<212> DNA

<213> Homo sapiens

<400> 123

gaattcgagg ccgcgtcgac ctaaaacccc agaatcatta ttgttgcatc tctttatatt 60
ccatctaatt attcatcaaa tagcagtaat gctttctttg aaatgtcttc tatatatctt 120
tgttttcggt tctgtctttt atctcctcat ttctgttctt tccccctccc ctctctctga 180
tttacttcta acagctttat gtccctttca gtcgacctc gag 223

<210> 124

<211> 178

<212> DNA

<213> Homo sapiens

<400> 124

gaattcgagg ccgcgtcgac cagactggca acaaactttt gagtgagtgt taagatacaa 60
gaaaccctaa aggttcctag gagaaatgac tttaaactta gaattccttt ttttaatttg 120
gtccacacag ggtctcactt tgttgcccag gctgctgtac aatggcccag atctcgag 178

<210> 125

<211> 226

<212> DNA

<213> Homo sapiens

<400> 125

gaattcgagg ccgcgtcgac agaaaagcac aaattagttt taagtgaaaa gttgaaaagt 60
aagtccgata aattaacatt caccatttgt ttttttttaa taaaggtaaa aatcactaaa 120
ataaacagcc cactttaaca aaaaataggt gcaataaaac tataaaagag aaagcaaggg 180
agtgatgaac agaggttgta gggatgatgat acggaggata ctcgag 226

<210> 126

<211> 220

<212> DNA

<213> Homo sapiens

<400> 126

gaattcgagg ccgcgtcgac gtttcaaagc cgtagacacc ttttattcag ggctggtaag 60
cttcaactggt gtttttggtc tcttgccttt tttttttttt ttaaatctga ttacaatggt 120
gttgacacact gttgtggttt atcgtttttt agtgatcctg ttgtctcaata accctccagt 180
gctctgctct gaaacagcac cagaacecca ccaactcgag 220

<210> 127

<211> 216
 <212> DNA
 <213> Homo sapiens

<400> 127
 gaattcgcgg ccgcgtcgac tcgtccagta ccagtgccac gcagttttaa tagtgatatt 60
 tcctattttg gtgttggggg caagcaagct gtcttctttg ttggacaatc agccagaatg 120
 ataagcaaac ctgcagattc ccaagatgtt caccagcttg tgctttctaa agaagatttt 180
 gagaagaagg agaaaaataa agaggcagct ctcgag 216

<210> 128
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 128
 gaattcgcgg ccgcgtcgac gcaaactagt aagtatgagg ttttcagctt caaatacaaa 60
 accgtaatga tactagctga cattattgag tgcattcaga atacttttagt ggacttttta 120
 taagaattat taatatattc caaaggatta ggaatgttac ttttcatgtt ctccctcgag 180

<210> 129
 <211> 204
 <212> DNA
 <213> Homo sapiens

<400> 129
 gaattcgcgg ccgcgtcgac ttcctctcct ctctctcttg ccatttttagc gtgcattgatt 60
 tcattttttt tgtttggcacc tgtaagggtg tatcttttct ttgccacagcc ttgggttatg 120
 gttacatctt cccattgtct attgccacc ctccagtttg caccctctggt gcgctccttg 180
 ctgggtgaag ccgggcctct cgag 204

<210> 130
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 130
 gaattcgcgg ccgcgtcgac ctgagggatg ctcattctta acagtctccc tcatgtactt 60
 ttgctgtttt acacagagaa acaggtagac cccacagagg agaaggaggg gattcaacag 120
 ctttattgtc tggaaagcagt gagatttggg gattgtcttg ggggattcct gggtttccct 180
 ggggtacctg ttccaggcag tcagtccatt tgccttcta gtacaagccc cctcgag 237

<210> 131
 <211> 250
 <212> DNA
 <213> Homo sapiens

<400> 131
 gaattcgcgg ccgcgtcgac cttgtagata ctttttgaat ttaatgtcgt tagaattgct 60
 tcttttttta atgctctatc taggtgaaag atatgatcct gagcccaaat caaatggga 120
 tgaggagtgg gataaaaaca agagtgcctt tccattcagt gataaattag gtgagctgag 180
 tgataaaatt ggaagcacia ttgatgacac catcagcaag ttccggagga aagatagaga 240
 gactctcgag 250

<210> 132
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 132

```

gaattcgcg cgcgctcgac atttatttaa ataatatagt tccatatttt ttagtatatt 60
tacagagttg tgtaaccatt accacaatct aattttggaa cactgtcttg gtccttgaaa 120
gaccttgcaa accattagca gtcacttctc atttctcttc tccccagccc ctggcatcca 180
ctaattctact ttatgtctct atggatttgc ctactctggt tgtttcagat aacatttgga 240
ctttgtgaca gactcgag                                     258

```

```

<210> 133
<211> 139
<212> DNA
<213> Homo sapiens

```

```

<400> 133
gaattcgcg cgcgctcgac ctttcccaaa attcagaagt taatgggctt ttatgttttt 60
ctatattttt tttatttcaa tgatttggcc tgtctatgtt aggctaaaaa ataaccttgt 120
gtatgctacc aacctcgag                                     139

```

```

<210> 134
<211> 201
<212> DNA
<213> Homo sapiens

```

```

<400> 134
gaattcgcg cgcgctcgac ggagaagtaa gaattgtaag ggaggttcag tagtggggaa 60
ttctgtgaca gctgattgaa gatgatgatg aagaacctct gcattctagt taccctttgc 120
ttcccttcac ctcttgtaaa atttggcttg gcaacaatga cattgtcatg cttattgtcc 180
caatatccat ccaatctcga g                                     201

```

```

<210> 135
<211> 132
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (84)

```

```

<400> 135
gaattcgcg cgcgctcgac ctgaggttg tctaagagga aacaaaaaa gagctggaag 60
agaacaagcg atccctggct gcantggatg cactcaatac tgatgatgaa aatgatgagg 120
agggctctcg ag                                     132

```

```

<210> 136
<211> 190
<212> DNA
<213> Homo sapiens

```

```

<400> 136
gaattcgcg cgcgctcgac agaagacata ctaatagaac tccttgcttt taattgggga 60
aatagggttt taataatttt gacctcaact aaaaatgata tgcaatagtc tctgtgtgtg 120
tttgaaatac attgtgttct cagagatttc tacattctca cgttctagtg atttggggca 180
tagactcgag                                     190

```

```

<210> 137
<211> 220
<212> DNA
<213> Homo sapiens

```

```

<400> 137
gaattcgcg cgcgctcgac atcacaatga gaccgttggc tttgaatttg agtcgttggg 60
tcccatgggt agatgcttgt taagacttta tacttgggtc aatctctcac tttattttgt 120

```

agaaccattt gaaatectag gatgtgcttg ttctggaagg atgacatggg cccagactga 180
acaagtcagc ttgatgatct taaatgatgg gcaactcgag 220

<210> 138
<211> 156
<212> DNA
<213> Homo sapiens

<400> 138
gaattcgcg cgcgctcgac tgcatttttt ggtatattaa tcttgtatcc tctaaccctg 60
ataatgcatt tattagttca tagtgttttt tgcttttttt gttctttttt ggtaaatgcc 120
ttaggatttt cttttttctc cgactccccg ctcgag 156

<210> 139
<211> 239
<212> DNA
<213> Homo sapiens

<400> 139
gaattcgcg cgcgctcgac ctgaaaataa ggaaaatgtt agggacaaaa aaaagggcaa 60
catttttatt ggctctgttg atgagcgccc ctgtttgctc ggacaaggcc gaaggaagca 120
gcagctctac tggtctcagg cttgacatcc gggtttctag ctctgaacga gaagcagagt 180
cctggaaact atcaaacaca acctcgcccg tggcaggctg cactcccaca atgctcgag 239

<210> 140
<211> 169
<212> DNA
<213> Homo sapiens

<400> 140
gaattcgcg cgcgctcgac cccgcctcaa cctcacgagt aagctgagac tgcaggctcc 60
accacaccca gcgaatttat ttatttttgt agagatgagg ttccaccttt ttgccaggcc 120
tggtctcaaa ctccctggcct caagtgatct gaccaccagc ggctctcgag 169

<210> 141
<211> 222
<212> DNA
<213> Homo sapiens

<400> 141
gaattcgcg cgcgctcgac aaaacgcctt atgatgaatc taagtcttat attggctgtg 60
atctttgtac taactgggtat catggagaat gtgttggcat cacagaaaag gaggctaaga 120
aaatggatgt gtacatctgt aatgattgta aacgggcaca agagggcagc agtgaggaat 180
tgtactgtat ctgcagaaca ccttatgatg agtcacctcg ag 222

<210> 142
<211> 198
<212> DNA
<213> Homo sapiens

<400> 142
gaattcgcg cgcgctcgac tgccaaattt tttaaatctc gaaattggtc ctaaaagaga 60
cttcataat catctggttc aatgagagat ctttttactt tatttattat tttattttat 120
ttattttatt atttatttat ttttgagatt gtgccattcc actccagcct ggggtataaa 180
gctggactcc gactcgag 198

<210> 143
<211> 238
<212> DNA
<213> Homo sapiens

<400> 143

gaattcgcg cgcgctcgac tattcttgc ttgctggagg cagatctgaa ggatgcatc 60
 tctcctgtgg cttcttctag tgtgggggtcc cgaagcctgg cttccccagc cgatgtgctg 120
 ctttagtcag cgtctgcctt ggtccttcgg ttgcagggct cacacgcttt cttgggttgt 180
 gtcccttttg actgcagagg ctacgtgtcc tgtgaccaac cacggaggcg gctcgcag 238

<210> 144

<211> 151

<212> DNA

<213> Homo sapiens

<400> 144

gaattcgcg cgcgctcgac ctaaagtcca gtgtttccag agacttttga aagtcaactt 60
 acactttttt cttcttcatt cacaagctt ttcttccctg ggccctggta tgtatgcctt 120
 tctctcctac tgtctaatag cgagcctcga g 151

<210> 145

<211> 186

<212> DNA

<213> Homo sapiens

<400> 145

gaattcgcg cgcgctcgac caggatgttc ttctatctcc attcatctac cttggtgttt 60
 ctttgtcttg cctccttgc ctggtgtgct gagcaatatg gggcaccttc atttctgcag 120
 tcagagggtt ggccactggg aatgagaaga accacctctg taccttggga tgctgtgtca 180
 ctgcag 186

<210> 146

<211> 460

<212> DNA

<213> Homo sapiens

<400> 146

gaattcgcg cgcgctcgac gggctcctgaa gccctctgtc tacctgggag accaggggacc 60
 acaggcctta gggatacagg ggggtccctt ctgttaccac cccccaccct cctccaggac 120
 accactaggt ggtgctggat gcttgttctt tggccagcca aggttcacgg cgattctccc 180
 catgggatct tgagggacca agctgctggg attgggaagg agtttcaccc tgaccattgc 240
 cctagccagg ttcccaggag gccacaccat actccctttc agggccaggg ctccagcaag 300
 cccaggggcaa ggatcctgtg ctgctgtctg gttgagagcc tgccaccgtg tgctgggagt 360
 gtggggccagg ctgagtgcac aggtgacagg gccgtgagca tgggcccagg tgtgtgtgag 420
 ctccaggccta ggtgcgcagt gtggagacag gattctcgag 460

<210> 147

<211> 244

<212> DNA

<213> Homo sapiens

<400> 147

gaattcgcg cgcgctcgac caccttccat ccattttccc agtccagaaa tttaggagtt 60
 atctctgatt ccttctttat tcttaatccc attttccata cataatcaag cccctgggtc 120
 agtcagtctt tgctgcccac gatttctcaa ttctgtctgt ttgccatatg tgaatcatat 180
 gctactgtgt tacctttgca ttagtcttag tttttcattt aaatatatto agtgtgagct 240
 cgag 244

<210> 148

<211> 165

<212> DNA

<213> Homo sapiens

<400> 148

```

gaattcgcg cgcgctcgac atttcatgaa cttaggatgt gttttttatt catgaaaaac 60
ttagaatagt gaactattaa tatttataaaa cgagaaatac aacattttaa aaattaagag 120
tattttgcat tagtgattat gattcttate ccaaaattcc tcgag 165

```

```

<210> 149
<211> 252
<212> DNA
<213> Homo sapiens

```

```

<400> 149
gaattcgcg cgcgctcgac gaagcctcat tggagcagat tgccttataa tctttttcct 60
tctaatttca ggattggcat ctctgtctt tttctgtctt cttggcattt tagcatatct 120
ccagtagggg gtctctgaat tctgaatacc aatttacgcc aaattatggt cattagtgtc 180
ctggctgctg ctgttttact tttatatttt tctgtgtgca taatccgaaa taagtatggg 240
cgagatctcg ag 252

```

```

<210> 150
<211> 136
<212> DNA
<213> Homo sapiens

```

```

<400> 150
gaattcgcg cgcgctcgac agacattggt ctttagccat tgtatcttta atagtctttt 60
aaacacattc atctctgggc taaaaatgct ttttaaaaaa accaaaaaga gtactttttt 120
agaagcattg ctcgag 136

```

```

<210> 151
<211> 188
<212> DNA
<213> Homo sapiens

```

```

<400> 151
gaattcgcg cgcgctcgac cccaacctga agctgaagaa gccgccttgg ttgcacatgc 60
cgteggccat gactgtgtat gctctgggtg tgggtgtctta ctctctcacc accggaggaa 120
taatttatga tgttattggt gaacctccaa gtgtcgggtc tatgactgat gaacatggac 180
acctcgag 188

```

```

<210> 152
<211> 181
<212> DNA
<213> Homo sapiens

```

```

<400> 152
gaattcgcg cgcgctcgac atttttactg caagttaatg ctggaaaaac agggcaattt 60
ttcacagaga gaacatccta ataatatcag tttagtacaa aatagcggca tcttagtgaa 120
ccttgatatt ttcttttttg ttgcagttgt tgctagaaaa cataatcgga aggacctcga 180
g 181

```

```

<210> 153
<211> 251
<212> DNA
<213> Homo sapiens

```

```

<400> 153
gaattcgcg cgcgctcgac caacctctcg gcttagtaag ttgtggtttt tctgaccttt 60
ttaaagtttg agaggacatt ttatttatat taaccaattt atttgaattt cagtctcaga 120
agtattaaat attagttcat aagattgtta atctgctggg tcaggcaaat acagaagagt 180
ttttcacttt attcttgatt attttactta tgatcatttc caatttagtt ggggtaataa 240
cctgcctcga g 251

```

<210> 154
<211> 224
<212> DNA
<213> Homo sapiens

<400> 154
gaattcgcgg ccgcgctcgac atttggttgag ttttgaccac tgcgcctggc tcataatttc 60
tttatatatac aaaacaattc agcttgcttc acttttatga aagctttatt atgagtttga 120
aagcaattct gcattttctt aacattgtaa ctgggtgtga gttgaaggca ggccccctggg 180
agccctttgt gggcaattcc ctccactctg gaggtgcct cgag 224

<210> 155
<211> 145
<212> DNA
<213> Homo sapiens

<400> 155
gaattcgcgg ccgcgctcgac ctgtcttat tcttgatttt aggggtgctca ctcttagtct 60
tttgccatta tattgtttta tgttggtttt ccataacctc actatgctga atagcagttt 120
ggcactctgt ctggctgctc tcgag 145

<210> 156
<211> 163
<212> DNA
<213> Homo sapiens

<400> 156
gaattcgcgg ccgcgctcgac cagctatttt attttaaaag ccaaaatatt tttaaactag 60
ttttaaatatt tgacgctttg aatagataac acttttacat ggttcaaaaa taatataaag 120
agctatacat tgaaaaatgt tgcttccact cctgttccct gag 163

<210> 157
<211> 197
<212> DNA
<213> Homo sapiens

<400> 157
gaattcgcgg ccgcgctcgac agagcttact gagttaattg ccaggagatg tatctaagtc 60
agagggttggg gttgctctc tgtgttttgc tgggttcgtg cagagctgct ttgtgaccag 120
gtttctacca ctgggggtgc tttttgcttt tcttttcaact tcccacatct caagcacctg 180
ctgcgggtca gctcgag 197

<210> 158
<211> 255
<212> DNA
<213> Homo sapiens

<400> 158
gaattcgcgg ccgcgctcgac ttaaaaattt gtgaagcgtc gcatattttt tcagttattt 60
tagtattaac aaacaaattg aagatcattg gtttatataa cccctgaga gactaatagt 120
agaatagaac agaataatag aatagaatag aacagaatag aataatagaa tagaattata 180
ggtatgagcc gtggtgcctg gcttctaata gtttttttgt tgtgtgtgtt gttgtttttt 240
atgggttccc tcgag 255

<210> 159
<211> 150
<212> DNA
<213> Homo sapiens

<400> 159

```

gaattcgcg cgcgctcgac tggagtggga tggaaatttag caaagggtaca tagaacaaca 60
gtgatcacat tgcttaagag tttctgggtt tttttgtttt ttgttttttt tgagatggag 120
tcaggctctg tcgcccaggc tggactcgag 150

```

```

<210> 160
<211> 114
<212> DNA
<213> Homo sapiens

```

```

<400> 160
gaattcgcg cgcgctcgac cttattccaa cttttctttt aaaacaccag caaacgtatt 60
tgtgaatctc tcttatcctt gaaacttctt atgctgttga taaacttact cgag 114

```

```

<210> 161
<211> 166
<212> DNA
<213> Homo sapiens

```

```

<400> 161
gaattcgcg cgcgctcgac ctatgaatca cgatactacg atgatcctcg ggaatacagg 60
gattacagga atgatcctta tgaacaagat attaggggaat atagttacag gcaaagggaa 120
cgagaaagag aacgtgaaag atttgagtct gaccagggac ctcgag 166

```

```

<210> 162
<211> 182
<212> DNA
<213> Homo sapiens

```

```

<400> 162
gaattcgcg cgcgctcgac attctttgtt accctttaca agtataagtg tttacaagta 60
taagtgttac cttacatgga aacgaagaaa caaaattcat aaatttaaatt tcataaattt 120
agctgaaaga tactgattca atttgtatata agtgaatata aatgagacga cagcttctcg 180
ag 182

```

```

<210> 163
<211> 217
<212> DNA
<213> Homo sapiens

```

```

<400> 163
gaattcgcg cgcgctcgac cttttttctc tctctctttt aaataaacac aagcttcaaa 60
taagcacaca ataatgctgg gcaagcctac tgggatttgg gattctctag ttagttttct 120
ttgcctaact gagatatcta tttcatacta cttctcatte cccaaatata tcattccctt 180
ctctacctcc cctcccagct gccccacaa cctcgag 217

```

```

<210> 164
<211> 165
<212> DNA
<213> Homo sapiens

```

```

<400> 164
gaattcgcg cgcgctcgac gcacaatagc agtttctaag caatgaatga gaggacacgt 60
atgttggtga ctttggtgtt tctcttcate cctccaataa ataaaaccga gagttttgtg 120
gacagggatt tattagagtt tcatcattta gttgacaggc tcgag 165

```

```

<210> 165
<211> 227
<212> DNA
<213> Homo sapiens

```

<400> 165
gaattcgcgg ccgcgctcgac tcgtgttaac aactttttgc ttgtttggat tgtttcttta 60
ggatacatct ccagacatat acttagaaca tcaaaaacgt atggacatct ttttgatttc 120
tcattgtgta tattatgtcg catgtgttat gttatatgta tatatatata tgtataacac 180
atatatatat gtcattgtgt atattatgtg ggggggaaaa actcgag 227

<210> 166
<211> 211
<212> DNA
<213> Homo sapiens

<400> 166
gaattcggcc aaagaggcct agtttatgaa acttaccaga aaataaaagg accaatctaa 60
aataaagaat ctctattgta tttttctact gacaatgcaa atgcttatct taaaacatct 120
aattttttcc cctttttcac aggcaagcac aactgtaaca cttccagaat ctcagttcct 180
tgccagttgt cattctgaag catccctcga g 211

<210> 167
<211> 218
<212> DNA
<213> Homo sapiens

<400> 167
gaattcggcc aaagaggcct agaattaaaa ccataaatct atatcttagc taagatagga 60
aaaatttact aaaatatctt tttctggttg aatttcagat ttctctata actctgcaca 120
ccagaaaaaa atctatagta caaatacaca tgaaattcca tcaactgttt catttttttt 180
taatttttct taatcttggt cagggcatac atctcgag 218

<210> 168
<211> 238
<212> DNA
<213> Homo sapiens

<400> 168
gaattcggcc aaagaggcct aaagccaggt aaaaatttta aaaaagatga aatcctttct 60
ggcttctgcc agaggctctg cattcttcat atctctgttc ctcatcagtc actgcaaagc 120
tgatcagaca gattggcatg gtgttcagca ttttgagttc cagactctgg cgatgggaga 180
taggtcattt ggaatttttc cctcatcccc tctcctcaaac caaatcagaa atctcgag 238

<210> 169
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (31)

<400> 169
gaattcggcc aaagaggcct aggttgatta natatttttg ctattgtgaa tagtgctgca 60
gtaaacgtga ggggtgccc atctctttga taaactgatt tcttttctt tggatagata 120
cccagtagtg ggattgctgg atcatatggt agttctatct atagtttttc tttttttttt 180
gagacggagt cttgtctctg caaccaggct ggagtgcagt ggcattgatct cagctcactg 240
caacctccgc ctcccggggc tcgag 265

<210> 170
<211> 230
<212> DNA
<213> Homo sapiens

<400> 170
 gaattcggcc aaagaggcct aggatattcc agcaaagtct ctaactgcag cctgtagaca 60
 atttgctatt aaagattcag tgcacaaaat atagctaaca gcttttaaat ttttactttt 120
 aaccagtctg gggatttgct tgcctgggtga gtctcatatg ccatattatg aatatgaaaa 180
 taatgaagtt aatttcctgt tgcctttctg tgtcagccac aaacctcgag 230

<210> 171
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 171
 gaattcggcc aaagaggcct aggaatggct tgatgggtgc aggctatgct gtgactgggg 60
 ctgtcctggg ccaagacagg ctgatcaact atgccaccaa tgggtccaag ttcctgaagc 120
 ggcacatggt tgatgtggcc agtggccgcc tgatgcggac ctgctacacc ggccctgggg 180
 ggactgtgga gcacagcaac ccacctgct ggggcttctt ggaggactac gccttcgtgg 240
 tgcggggcct gctggacctg tatgaggcct cacaggagag tgcgtggctc gag 293

<210> 172
 <211> 139
 <212> DNA
 <213> Homo sapiens

<400> 172
 gaattcggcc aaagaggcct agggattttt tactagtgat ttaatgttac tacttgttat 60
 tggctgttcc aggcctttct tcttctctgat tcaagctggg caggttgtat gtttccagga 120
 atttaccatt tccttcgag 139

<210> 173
 <211> 149
 <212> DNA
 <213> Homo sapiens

<400> 173
 gaattcggcc aaagaggcct agtgagagtg acatcatgca ggaattactc gtattgaaca 60
 cactttttct agatattctt ccaatccccg acgtcgggca tctaattggt gttctgataa 120
 tgaaaatggc cactcccccg ggactcgag 149

<210> 174
 <211> 209
 <212> DNA
 <213> Homo sapiens

<400> 174
 gaattcggcc aaagaggcct actcgaagtt cctcaaatac accaaagact ttcttgccct 60
 aaataatttt tatgtatcta tttctgcatt ctacagtttt ctttttctct ttatctaccc 120
 aaccaaattc ttcaaaggct agtgaatg atttccttcc tgagggtcagt ccttgcccaa 180
 aaagatccct cacatcctct aaactcgag 209

<210> 175
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 175
 gaattcggcc aaagaggcct aatcatatta taactgatta gacaaaatgt ggcatatttg 60
 tttttatttc ttttgtgttt tacaagggtc cactctgttg ccagggtctg agtgcagttg 120
 tatgatctcg gctcactgca gcctggacct cctaggctca agcaatctc ccacctcggc 180
 cccccacata gctgggacta cagggtgcagg ctatcgactc gag 223

<210> 176

<211> 151
 <212> DNA
 <213> Homo sapiens

<400> 176
 gaattcggcc aaagaggcct agttctctga atgtaacatg acatttctca ttccataacc 60
 ttcatcttatg ttgtttatct ttggaatgct ctctcttcat ttgatgctt cacacgctaa 120
 tacacatcct tcaagaccca attcactcga g 151

<210> 177
 <211> 327
 <212> DNA
 <213> Homo sapiens

<400> 177
 gaattcggcc aaagaggcct aaacataatt agttgtttat atacttcttc tttaatccca 60
 gagttcgatt taaaaaatat ttgattgctg tttttgtata ttatctcagt gctctaaaaat 120
 taccctagca aacgtgcagg aatgggtgta ggccccctaa ataaaaa-gg aattagttat 180
 gttgggtttt ttttttttgc tgtttcactg ttacaattcc ccactgtcaa aggtctcttc 240
 cacaattttg tgggattagg gacaatggga tgtcatctct cagctggcta cttcttgccg 300
 aacagggtca acgccccgca actcgag 327

<210> 178
 <211> 500
 <212> DNA
 <213> Homo sapiens

<400> 178
 gaattcggcc aaagaggcct agagggggcg tgcgaggat actgctctcc tctctgggat 60
 ctgtgagtaa tacactacct ctgctatttc atgcacccct gctatttcac gttgctctct 120
 ctgtgtctca cctgcccagc acacctgaat ctacagtatt tcttggtcag ggcattccta 180
 gagagtggct atcttggtag gaataaacca gaaacaggtc agacaagagc cccaagagtg 240
 tctgtcaata taatcaagtc cttatgagag aggacatctg gtcacagggtg gacacttagg 300
 cattaggcct tccaccagaa agaagtatcc caagaaaggc aactgcaga cagccacgac 360
 cactcctctc gcatcagagc agggctagag tttatagcca cttcttagag agagctcaag 420
 aactaattag aaagaaaaaa aaatacaaca cacttgctca tgttaaaact gggatttggg 480
 cccatgccat ctggctcgag 500

<210> 179
 <211> 226
 <212> DNA
 <213> Homo sapiens

<400> 179
 gaattcggcc aaagaggcct agttgagggg aggttggttt catggtttta cttttggttt 60
 tttagaggact atgtttgttt ttatttttat tttttatttt ttattttttg agacagaatt 120
 ttgctattgt tggccaggct ggagtgcagt ggcacgatct cagctcactg caatctccgc 180
 ctcccagggt caaactattc tctgctctca gcttcccaag ctcgag 226

<210> 180
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 180
 gaattcggcc aaagaggcct aatgtggctc tttctctttt ttccctatc tttagattga 60
 tgcctcagaat atgttctctc tgggtgccat ttgacagcta agtttcccaa ggatagctca 120
 gctttcttta ggagttttct tcttctcatt cctaccatga tgtgagaatt gactgagctg 180
 gtttctctct atttgttgta cacattacta gtaaccatta cttataatta ttttagatga 240
 tgctagcctc atttttactg ataaggctcg ag 272

<210> 181
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 181
 gaattcggcc aaagaggcct aagaatgtgc atacatgttt tcatgagtgt cctttgggtg 60
 ctgtttcttt taaatcctct gtgcacaggg ctctggcctt tagtaaaactg tttttctgtc 120
 ttacgtcatg ctgactgggt gctaggggct gattacaaag gggaagagtt gaacagacat 180
 caggggccga tgaaactaaa tggactcgag 210

<210> 182
 <211> 353
 <212> DNA
 <213> Homo sapiens

<400> 182
 gaattcggcc aaagaggcct acgttctgca agtactagtt aatacaataa aactagagag 60
 agaaagaggt aattcaaagg caggaggtaa aatgatcact acttgcacaa tgagtgtata 120
 cctgaagaaa cccaagggaa tccactgaaa aactactatc aacatgaaga gagtttcaga 180
 aaagatgaca gctgggtaca aaattaacac agagaaccca ataggtatca catataaacc 240
 aacaactagt gagaagatac aatggaagaa atggccttat tttcaaaagg aacaaaaagt 300
 taaaatatta taagtcaatt tcacaggaaa tgtctaaaac tcccagactc gag 353

<210> 183
 <211> 198
 <212> DNA
 <213> Homo sapiens

<400> 183
 gaattcggcc aaagaggcct aaagacatca aggcattcaa tgcataccgt tttggttttt 60
 atttctcctt gtcttttctt ttctggattt tcatctcatg taaagcatgt ggggggttta 120
 tttttatatt tttgtgtgtg tgtgcagtgt ctgcccgaag caagtctctt gggaggagga 180
 ggcggcagca cactcgag 198

<210> 184
 <211> 216
 <212> DNA
 <213> Homo sapiens

<400> 184
 gaattcggcc aaagaggcct attttaattc tatttttcat ttgagctgac ttgtagccac 60
 ttcagactat caatggaatc ttatgttgag cctttctctg gctttccttc ctccactatc 120
 tctccaactt tagagatcat cccctctccc tccagtgcgt tctatctccc ccacacccac 180
 cctagatact cccttttcac ccacctcttc ctcgag 216

<210> 185
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 185
 gaattcggcc aaagaggcct aaaggctgaa tatgaggaaa aattcctggt acaagggtcat 60
 actaagcatt ttagttccac ctgccatatt gctgttagag tataaaacta aggctgaaat 120
 gtcccatatc ccacaatctc aagatgctca tcagatgaca atggatgaca gcgaaaaaca 180
 ctttcagaac ataacagaag agctcgag 208

<210> 186
 <211> 184
 <212> DNA

<213> Homo sapiens

<400> 186

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gaattcggcc aaagaggcct aatttctcat caccgaagc tgcaaatctt ttcaaatgtt 60
atatttcata ttgtgggttac tgtctccaaa tatcttctct ttcttctctc ttcaattgcc 120
ttgcagctgg caagtctctg gaggccctgt cccctgccat tgcccaactga acagacatct 180
cgag 184
```

<210> 187

<211> 239

<212> DNA

<213> Homo sapiens

<400> 187

```
gaattcggcc aaagaggcct aggtagactt cctgtgatct tcagaaatca tctacctggt 60
aaaaatacat gctgtttaga atatctgata ggtgtttcca gctactatta gaggtgatag 120
tgcttttctg ggggaaaaaa ttggtcatgg tgaatggaga tcgaggaagc tcgggacaag 180
ggaggggtgg gctgctctgat ttgtccagt ttccaaata tccacgcaat gaactcgag 239
```

<210> 188

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (151)

<400> 188

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gaattcggcc aaagaggcct agtgtgtgtg tgtgtgtgtg tgtctaattc aaattataca 60
caaggagttt gtgcaggctt tcttttagagg cagaagccag ttaggcaggt caagaataat 120
ataaaatcac aaatgaagag aataatgtgt ntatttttca ttgtctattt aggactgtct 180
gggggagact gtctctctct gggcggaaga ctcgag 216
```

<210> 189

<211> 303

<212> DNA

<213> Homo sapiens

<400> 189

```
gaattcggcc aaagaggcct acaatcttta gcttccatag tgtcacacac tattaaattt 60
ttctcttctc cattagctgc acctactcat tctctttgtt ggttctctct catcttcttg 120
acaacttttg cagctgcctc catggcattt ccacttgggt atctattaat aatattttatc 180
ctaattgtgt cagaagcaaa tttctgttcc attctacctc ccaattctgc tccaccttca 240
gtcttacctc gttcgattaa agacaactct attcttccac ttgcccagac caaaaacctc 300
gag 303
```

<210> 190

<211> 209

<212> DNA

<213> Homo sapiens

<400> 190

```
gaattcggcc aaagaggcct atgagaatcc acgcgagacg gagccctctc cgccggccgg 60
cctggacgct tgggatcttg ttctgttctc ggggatgtat cgtcagctct gtatggagtt 120
cttctaattg agcttctctc tctctacctc ctctctcgcc ggggtctcac tctcagcacg 180
agcaccattt ccatggcaac aactcgag 209
```

<210> 191

<211> 195

<212> DNA

<213> Homo sapiens

<400> 191

```

gaattcggcc aaagaggcct agtgagttgt tataaaacaa tgctgcctct tctattttgc 60
gctttttgtt tgcacaaact cggccccctt ctgtttctct acgatgtttt gatgcagcat 120
gaggcagtc tgaagaacca ccagatacag ctgcctgata ctgaatttcc cagccaacag 180
aaccaaatgc tcgag
195

```

<210> 192

<211> 215

<212> DNA

<213> Homo sapiens

<400> 192

```

gaattcggcc aaagaggcct agaaagccct gaccctagat tggctgaatc tgaatctgca 60
ttttaacaag atctctaggc acaaatatgc acaataaagt tttagggtgca tggctctgtg 120
ccatgctgcc tgtttctgac acaaatgaaa gaaaatcagc tattgaagga agcaggtctc 180
tagatctgac agtccatgtg tctttctccc tcgag
215

```

<210> 193

<211> 275

<212> DNA

<213> Homo sapiens

<400> 193

```

gaattcggcc aaagaggcct agtctcgaac tcttgagttc aagagatccc cccacacctca 60
gcctcccaag tagctgggac tacatgccct tgccctctgt ttgttttcca ttattttctc 120
acatgtcagg cttcattata tgtttcacag tctttattat tatttacctt cctcagctag 180
aatgtgagtc cacaaggata ggtctgaact cttttactca cagcatttct gacccccaaa 240
tatgtgtctt ttgtcctcat accaaccaac tcgag
275

```

<210> 194

<211> 282

<212> DNA

<213> Homo sapiens

<400> 194

```

gaattcggcc aaagaggcct acgtcgattg aattctagac ctgcctccag gacctcccc 60
cttttttaaa aataaatgac tgacaagtgt gaatcccgty aagactttat ttgtgttgt 120
gtgtatcctg tacagcaagg ttggtccttc gtaacaacgg atgaaatggt tccctttttt 180
aaagcgccct ctctccctcc accctcagcg cccctgtcct tggcatgttt tgtatcagcg 240
atcattctga actgtacata ttatgtagc gagaggctcg ag
282

```

<210> 195

<211> 132

<212> DNA

<213> Homo sapiens

<400> 195

```

gaattcggcc aaagaggcct agcttgccca ttttgcttgc caatgttcca tctttcgggt 60
tctgatttaa tgcctgtcca tatgtacta tggcttcttc aggcctctaga atattcatgt 120
atgcattctg ag
132

```

<210> 196

<211> 224

<212> DNA

<213> Homo sapiens

<400> 196

```

gaattcggcc aaagaggcct agccgtgaga cgtttcggga gccggagtct ctccaccgca 60
gacatgacga agggccttgt tttagggaatc tattccaaag aaaaagaaga tgatgtgccca 120
cagtttcacaa gtgcaggaga gaattttgat aaattgttag ctggaaagct gagagagact 180
ttgaacatat ctggaccacc tctgaaggca gggtaggact cgag 224

```

<210> 197
 <211> 169
 <212> DNA
 <213> Homo sapiens

```

<400> 197
gaattcggcc aagaggccta agtgaacta aqtaactact gtcagtcaca ttactcctt 60
agcactttgg agtaaaactgt ggtttgattt ttttttgaca gggttaacaa acttgacat 120
acacacacat acataaacac tcatgcaaat caacttaaaa atactcgag 169

```

<210> 198
 <211> 209
 <212> DNA
 <213> Homo sapiens

```

<400> 198
gaattcggcc aaagaggcct actcaaaaga aggaggaaaa acaaggctct gaaagtgtt 60
atatttcatt agggagggtgg agaaaaaagg gacaaaaaag tgactgagaa gtaataatta 120
acaatcagaa agacactaga gttcatctg ggagccacgg agggacaagt ttcaaacctg 180
agaagatgaa gactgcagca gttctcgag 209

```

<210> 199
 <211> 306
 <212> DNA
 <213> Homo sapiens

```

<400> 199
gaattcggcc aaagaggcct accgtctcaa aaaataaata aataaatagt ctattgccta 60
agaataaatat cctattcctc atttctcctc ttacacatt acacacccca ctaactgtgt 120
gttctagatt caccgatctt tgtacctatg catatgctgt tctctctgtc tgaaatgtct 180
ttcctcttcc cctcatctg tcagattcca aaagtccttc tgactgggct cagatgtgat 240
tcttcccgga gacctttctc caatcttccc caagttgcag tcatctcttc acactgggaa 300
ctcgag 306

```

<210> 200
 <211> 176
 <212> DNA
 <213> Homo sapiens

```

<400> 200
gaattcggcc aaagaggcct atcacaagat tccgttatcc tgaaaggcct attatatttt 60
atgcagtctg ctacatgatg gtatccttaa tttcttccat tggatttttg cttgaagatc 120
gagtagcctg caatgcatec atccctgcac aatataaggc ttccacagat ctcgag 176

```

<210> 201
 <211> 198
 <212> DNA
 <213> Homo sapiens

```

<400> 201
gaattcggca aagaggccta atcttttctt agcactgctc tctcatatc atcaggggtgc 60
aaatatctct ctgtgccata cagagaaaca aactgctcat catcttctaa ttctctagct 120
gcacccaaat ctgtgagttt gtacacagac tgtccatctt cccctataac acgcatgata 180
tttctggct tgctcgag 198

```

<210> 202
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 202
 gaattcggcc aaagaggcct agtttagata tatacttagt tcaagccaaa ttagtctggg 60
 attagtaagg tttttgttaa cctaactttc gaattactgt ggctttaaat ctaatctttg 120
 actttttccc caaaatctta ttgcattcag agttctcat ttagattag ctgcatagt 180
 aataaattat agaagtgaag gttgcactta ataagcctgt gcttattttt ccatttgagg 240
 tgcataatc acataagggtg gtattagtgc tcttttggtt tgaagctagt ggccatgtt 300
 tatctgtctc tagtgggttc aagcctagca tcttttggtt ttgtttgtt ttgtttgtt 360
 gagacaagtt ctgcgtctgt tgcctgggct ggagtgcatt ggcacggtca taactcactg 420
 cagctcctaaa ctcttgacc caagatatcc taccacctca gctcctcga g 471

<210> 203
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 203
 gaattcggcc aaagaggcct atactggctg aaatcctgtc tcaaaaggaa gtgagtcattg 60
 aagaccagac catgttttta tttttatttt ttattttatt attattattt ttbgagatgg 120
 agtcttgctg tgtcaccag gttggagtgc ggtggccga tctctgtca ctgcaggctc 180
 cactcctcgg gttcacgcca ttctcctgcc tcagcctccc aagcagttgg gactgcagg 240
 gccaccacc acacgctcga g 261

<210> 204
 <211> 211
 <212> DNA
 <213> Homo sapiens

<400> 204
 gaattcggcc aaagaggcct agttttgcta agattgcatt gggttatgaaa aactgcagga 60
 acatttagaa gtgagtaag agaaaatgag aaatgggatt tttctttttc taatctcttt 120
 ttttttgag acacactctt gctctgtcac ccaggcagga gtgcagtggc actgtctagg 180
 cccactgcaa cctccacctc ccaggtcga g 211

<210> 205
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 205
 gaattcggcc aaagaggcct atgtattttt catgatgtta ccttccttgg tgttttcttt 60
 gcacggatc acacacgttt tttacttaga acttgcatct tcacctgctt ggacaggagc 120
 ctgcttgag cacagtcatt ctttgagcac tgtcacccca ttcttcaggg tcccagccat 180
 gcttgccat cacctgatc cccgtagccc cggaagtctc gag 223

<210> 206
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 206
 gaattcggcc aaagaggcct aacctgggct gccctacaca tgccttctct gctctatctg 60
 ctttttgctt accacaaagt ggtagagggg atcctggaca cactggaggg ccccaacatc 120
 ccgcccctcc agagggtccc cagagacacc cctgccatgc tccctgctgc tcggcttccc 180
 accacgctcc tcaacgccac agccaaagct gttgcgggtga ccccgctcga g 231

<210> 207
<211> 227
<212> DNA
<213> Homo sapiens

<400> 207
gaattcggcc aaagaggcct atacagagat actctagccc actcttgcaa caatattacc 60
aaggtgcatt tccagtaatg ccagttaaga gttcttatgg agacgttacc caacatataa 120
cagttgatta tagcatttgg aaaatatgcc tgagggaaaa aataatttat ttatcgtcac 180
tattattatt ttgccttttc taccatctgc tacaggccag actcgag 227

<210> 208
<211> 211
<212> DNA
<213> Homo sapiens

<400> 208
gaattcggcc aaagaggcct agtttgattt ttttgtaaat aaggacacct ctcaaagata 60
cttttaaatg aaaagacaaa gggtcagaaa atactgggtt tttttttttt ggacagtctc 120
attctgtgac ccagactgga gtgcaatggc gttgatcttg gtcacagtg acctccgctt 180
cctgggtcca agtcatgccc cctatctcga g 211

<210> 209
<211> 152
<212> DNA
<213> Homo sapiens

<400> 209
gaattcgcgg ccggtcgacc acgtacgtta ccataccaca gattttattt gtaaatacag 60
agaacaatta cactaacatt ctgtttaata taattgttct tctttgcaat atttttgtat 120
tttacattat gcatttaaaa agttatctcg ag 152

<210> 210
<211> 249
<212> DNA
<213> Homo sapiens

<400> 210
gaattcggca aagaggccta gccc aaatca atgtggtttc tttggaacat tttcagcaaa 60
ggaacgcata tgctgcagtg tctttgtggc aagagtctta agaaaaacaa gaaccctaact 120
ggtaagcgaa acatgcatca tgttatgttt ttccctcataa taacctgtct gttgctcacc 180
gagctagatc tgcagttctg ctatgcagga aggcagggga aacataccag gaaccaggac 240
aaactcgag 249

<210> 211
<211> 217
<212> DNA
<213> Homo sapiens

<400> 211
gaattcggcc aaagaggcct actcgacaac tgcactgtaa gaatttcttc tgtgtatttt 60
ctaattctgt gacaacaggc atcaacaaaa catgtggcct gttatcacat gggtctctcc 120
tgtgtgcacc ttcatagaga ttttttccct ttctaaaaga atgaggattc ctctgaatgt 180
tacactatgc aacaataatg tccccaatcc actcgag 217

<210> 212
<211> 191
<212> DNA
<213> Homo sapiens

<400> 212
 gaattcggcc aaagaggcct agtcgattga attctagacc tgcccgagct tccctgtttta 60
 agtacactat tagtaggaga atggatatcca taaagttgaa gacgcagcat tgcacgcttt 120
 tcttcattctc ctttaatttc tctcttttca ttttttttcc tgaatatctc ttgaagcacc 180
 aaaaactcga g 191

<210> 213
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 213
 gaattcggcc aaagaggcct aagcaaaaaca cagaaagata aataataact taggtcaaac 60
 ctttccttct cattgggtcc atttgccctgt tataaattat tagttaagtc caaagtattt 120
 tgtataatca attctgtata ataccagaat tcacettata aattatagtg atttttaaac 180
 atttattctg gactccccat aagttttgag atataaaaaat acactgaaat tagaacataa 240
 ataacatgaa tttagtaaca ctcatgctcg ag 272

<210> 214
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 214
 gaattcggcc aaagaggcct aattaaagct tatactttga aaattaggca agtcttttgt 60
 tttgggtgtca gtatttcttg tcattcttga tttttttgtg aaagattgga gagcaaaagt 120
 ggtatgaaca gttgtcaatt ctgtaccata gtaagcactg tgatgctatt tcattttgtt 180
 tttacaagtg aaacaggagg actcgag 207

<210> 215
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 215
 gaattcggcc aaagaggcct agcagagtca agttatacag tctaataact agaaatttct 60
 aggtacttct cgcagagaat gaaagtgagg aggagtttcc taacactggg gctttctttc 120
 ccttgctttt acaaaaagaca aagcctaggg agtcagtcag tagcactaga gtattcctta 180
 tgggcattaa gaatttctcc tgtttcctgc ctcaatcccc ctccctcga g 231

<210> 216
 <211> 159
 <212> DNA
 <213> Homo sapiens

<400> 216
 gaattcggcc aaagaggcct aattgaattc tagacctgcc tactattttt gtgaagaatg 60
 gtattgatta ttgctaatat tcttttttac attcgccatc ttggtgggtt agagaatatt 120
 ctgtgcatc gctaccatct accctccacc ccactcgag 159

<210> 217
 <211> 216
 <212> DNA
 <213> Homo sapiens

<400> 217
 gaattcggcc aaagaggcct acttagttca ttccgatttt tcaagttact atacttatgt 60
 aaaaaattac ccccaatttt agtgactttt acagaatcaa aaaatactta tatgcttatg 120
 aatctgcagt ttaggcaggg cttgggtggg ctagctcacc tttgctttct gtgggggtcac 180
 ctgggctgct tgatagtggg agcggacaac ctcgag 216

<210> 218
 <211> 213
 <212> DNA
 <213> Homo sapiens

<400> 218
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 cacttcaggc acacactgtt ttattttact gtattattgg attataccgc ctataaatca 180
 ctggatgtta ctcatctggc accgacactc gag 213

<210> 219
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 219
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 tgttttatac cctcggcaat cttgctgcgt tagccagtac atgcttttta atgggacctg 180
 tgaagcaact ctcgag 196

<210> 220
 <211> 438
 <212> DNA
 <213> Homo sapiens

<400> 220
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 agtagcctgc ttctctcgca ggcgcttctg tttggcttca cggttcctcc gggagatggg 180
 agatccatgg ggctccgact gtgtagaaac ggagtgaac ctggggaggc cccgtgagtg 240
 cctcagcccc caaaatgggtg gtcgaaaaga agcgagaggc aaatgaggca tcaggagtgt 300
 ttggaaaagg gccgagatct gtccaggagg ccccgccgct atcccagggc gccccgcggc 360
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 ttctagacct gcctcgag 438

<210> 221
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 221
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 aaatcaaaga aactccctct cttttctttc tataatatgt ttttcttat tgttaattcc 120
 tgcattgtgt agcaggagt tagggactgt gggcagcaga agaattaggc cgagggcagg 180
 ggggtccactc gag 193

<210> 222
 <211> 171
 <212> DNA
 <213> Homo sapiens

<400> 222
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 aggtactctt ctgtcccttc cgtttatagt tctctgagag agttctatct tttgggtttg 120
 ttttgtgttt tcttttgcac ttgtatctt gtatttatcc ctgatctcga g 171

<210> 223
 <211> 254
 <212> DNA

<213> Homo sapiens

<400> 223

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gaattcggcc aaagaggcct aatctgctcc caagacatca cagctagcaa ccactctacc 60
ttccccaagt aattaaggct ttagagaagt aaaagtcagt tcctcaaaat ctattagatt 120
gggttagaaa atccctatatt ggacaatctc tattagatga ctaatatatt taatctattt 180
tagaaaaccc tatcttttac aaactctgaa gtatttttca actacaaaat tccatcatga 240
agattttact cgag                                     254
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<210> 224

<211> 249

<212> DNA

<213> Homo sapiens

<400> 224

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gaattcggcc aaagaggcct agaactgcat ctagactaca cggattttac ccaaaaagac 60
agcacttgca cttaggctaa gtgtctttct ccatcgtaac caattttattg aatcacttta 120
agagtgatca ttggggaaat ttctctcttc agccttattt tggccttttg aaacagcaac 180
aaagactgcc tagtcaaata actccttagc tgattttacc ctcaaatgag ttttcgtact 240
ttctctgag                                     249
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<210> 225

<211> 269

<212> DNA

<213> Homo sapiens

<400> 225

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cagttattta cctgttccca gaggccatgt ttgcctgtt gtcacttggg atgcttctct 180
tatgcaataa tttttgtat gaagggttct cccaggcact gtgcttggaa tcttacacca 240
tatttaatct tcacagcacc agactcgag                                     269
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<210> 226

<211> 211

<212> DNA

<213> Homo sapiens

<400> 226

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gaattcggcc aaagaggcct agtctagatt tctttcaaac aaaaattaaa gagcaagaat 60
cattactgta taaatttttc ccagaggaga aaatttaatt ttctcttata ttccaggat 120
tatgcgttgt tcatatatat atatattttt ttctacattt atttttcttt ctttttttaa 180
cttttgtttt aggtttggtg gtactctcga g                                     211
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<210> 227

<211> 215

<212> DNA

<213> Homo sapiens

<400> 227

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tcctccacat tcttcttctc cagggtcact cctatgcatt cattgcttct actgccatct 120
ccttcaagac aacttgctcc tggaaaccaa atcacccttc tctctgctcc cacaggaccc 180
tgtgcacatt tatatccgag tactcaggct tcgag                                     215
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<210> 228

<211> 237

<212> DNA

<213> Homo sapiens

<400> 228
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aagggttcttg ggagactgtc agaaatgagt ttttactga acttcaccct gccggcgaac 120
acaagcaacc aaccattttg ctttgcttg tggtgtctgt ttttagcact gaaagtcctg 180
ggcagctctc tggacaatgc ggatgacgtc ctctcctgtc acaggtggga tctcgag 237

<210> 229
<211> 101
<212> DNA
<213> Homo sapiens

<400> 229
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atggggtcaa tctggttact tgggtgaccc cactgctcga g 101

<210> 230
<211> 235
<212> DNA
<213> Homo sapiens

<400> 230
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atgaattttt ttttttacac aaatgagttt tcattgggtc tgtttctttt tattttctct 180
gtgtagggtg aattgttatc tattgctgca gaacaaatta ccacataaac tcgag 235

<210> 231
<211> 344
<212> DNA
<213> Homo sapiens

<400> 231
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ttcagccttg acaacagagt gaggtccctt tgtggccaga ggccagccct ccttgccctg 120
cttcccttga cctctctttt ccatccatga agccctcagg cccttgccat tttttacca 180
cagaaaactc atggcttctc cagaagcctg agtatctctc tttcccagca caaatggcag 240
catctctatc ctgccccatc tgggccactt cagcttctct tagacaccca agacagatgg 300
acagtgttgg aggggaatcag gctttgagga tccagagtct cgag 344

<210> 232
<211> 323
<212> DNA
<213> Homo sapiens

<400> 232
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agtgttgagg atttttacat ctgcttatga gaaatacttt attggtctat aatttcttcc 120
agtatctttg taattttttt ttaagagatg gggctcttgc ttgttgccca ggctggagta 180
caatgtgcaa tcataggtct ctgcagcctt gtattcctgg actcaagcaa tctcctgcc 240
tcagcctctt gggtagctgg gactacaggt atataccacc atgccagct tctttgtgtg 300
gttttagtga cagagatctc gag 323

<210> 233
<211> 478
<212> DNA
<213> Homo sapiens

<400> 233
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agtgtctaata aatgttggtg gataacagaa caatttggtt taaatctcct ctcacagagc 120

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agaatcgccct ggagggattt tgccttgaaa attaaattct gatatcaatt tctaaaatta 180
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aagtgaacct actttccctat tagcagtcac ctaaaaacaa ataagcaaac aaacaggtaa 300
ctcagtccttc cctctgactc agtgtgagga aagggacagg cagcatcttg tgacagctta 360
cttcagtggg tctccatggt tcttcaccaa aaccacttgt gtttccctct caagcaccac 420
agtatccctat gacactaggc cagtgggctc tcaaactttt ggaattcagg aactcgag 478

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<210> 234
 <211> 119
 <212> DNA
 <213> Homo sapiens

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<400> 234
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aattataaca aaatatatga agtatgatgg tagagatata tattatacgg gctctcgag 119

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<210> 235
 <211> 253
 <212> DNA
 <213> Homo sapiens

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<400> 235
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tagatctggt tgattcctct gttttagttt tgaaatgtgc atgttatccc agctttccat 120
tatttggttg tcccttaagt gtgctcttga tatgttgac ttatggagag gtcacacctt 180
gccagctcgg cttaccttac ctatacttgc caacctaggg gtctgtact gtcaaacaca 240
gcataactc gag 253

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<210> 236
 <211> 244
 <212> DNA
 <213> Homo sapiens

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<400> 236
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tgtaaagtt ggaatttatt ctgttgccag catttaagta gtcatggcaa gtctgtttt 120
taagaccttt tggagactgg agctttctgt tccattaagt cttttgttta tactacaaat 180
tgtcaacctc cttagttcag atgaaatctg ttactctaca aggaagggtg tcatcaatct 240
cgag 244

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<210> 237
 <211> 171
 <212> DNA
 <213> Homo sapiens

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<400> 237
gaattcggcc aaagaggcct actttgggat tggatgatac agcttttgc tctgtgtagt 60
atacctgtac atacttggtt caggcagcct ttctttaatg ttttcagttg gtttgatatc 120
tgtagctcag tagctgctaa taaagttaaa gatcctgtgt ccagtcctga g 171

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<210> 238
 <211> 200
 <212> DNA
 <213> Homo sapiens

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<400> 238
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tgatactgta tctgttttcc ttcaaagtat agagcttttg gggaaggaaa gtattgaact 120
gggggttggt ctggcctact gggctgacat taactacaat tatgggaaat gcaaaagtgt 180
tttgatatg gctcctcgag 200

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<210> 239
 <211> 238
 <212> DNA
 <213> Homo sapiens

<400> 239
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 atgtcttatg aaaagctgct ttggccctt cctgtttta tctagtcctc attttggtct 120
 ggtgtctgag ccagctcca gagtcagcc ccgctccca cctcgaaggg agggacaagt 180
 tctgtctggc ctctttgata agggcactaa tctattcat gaggatggag ccctcgag 238

<210> 240
 <211> 250
 <212> DNA
 <213> Homo sapiens

<400> 240
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 agattatgat aagtgtctgt gattaaaata aagcagggaa agagaatagg aaattctagg 120
 ctaggttgag gggttgtaat ttaaaataac atagtcagag aagtcatgaa ggaaaaatac 180
 ctgagacagg ttgttttgca cagatttatg gaaaaagtgt ccagggcaga aggaatgcaa 240
 ggctctcgag 250

<210> 241
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 241
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 ccaccttagg caatctctgt gtaaagttag ttacttagat tatttagtga ctgtactgta 120
 gctgaaatag aacgcaatgt tgccaaatag aaaaatactt ttactgggac tgaagataat 180
 tttttttttg agggcggatc tcgtctctgc gccaaacctc gag 223

<210> 242
 <211> 240
 <212> DNA
 <213> Homo sapiens

<400> 242
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 atgcttggtg atatttttagc gggcttattt ttgaaaggca tctgttactt cagtggcata 120
 aagtgccctc aactgctgt gcagccatca ccaccattca tctccagaat ttgttctcag 180
 tcccaaatc aaactatacc attcaaacaa cagcgctccc catttccca tccctcag 240

<210> 243
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 243
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 gaaagaagag atgaaaaata ccagttggat tagaagaac tggcttcttg tagctgggat 180
 atctttcata ggtgtccatc ttggaacata ctttttgag aggtctgcaa agcagctctg 240
 aaaatttcag tctcaagca aactcgag 268

<210> 244
 <211> 190
 <212> DNA

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 cgcatgccgc aatccagaca tattcacaga agtggccaac tgctgtatcc gcctcgcct 240
 tcctgccct cgag 254

<210> 470
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 470
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 ttccaggaaact actttctgagc tagaaggccg tgcccttgag ccattacccc cagtccctga 180
 g 181

<210> 471
 <211> 242
 <212> DNA
 <213> Homo sapiens

<400> 471
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 ctaccgagaaa catctggaga aacatgtcaa ggggtgtgtgt gaaatcgttg agcctactcg 120
 attttgtcgt gctgttgcgc ggttttcaact tggcactgtc ctttaaacctc ctctgtgtgc 180
 gtgactctgc agtgtctggc agcgtagtag actctactcc ctctatggac gtgatectcg 240
 ag 242

<210> 472
 <211> 219
 <212> DNA
 <213> Homo sapiens

<400> 472
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 gtttttctga ttacgatgaa aaatatactg tcaataggag catgtggata cattggaaca 120
 ttgggtgcaca atagtgttg gttgatccag gctttcagcc tggcctgcac agtcaaaggc 180
 tatcaaagtc ctgctgctaa ttcaccctgt aactcagag 219

<210> 473
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 473
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 cctacaccag gactgggaag tgcagtacca acaggacacc ccggtggccc ccgctttga 180
 cgtcaatgcc ccggacctct acattccagc aatactcagag 220

<210> 474
 <211> 219
 <212> DNA
 <213> Homo sapiens

<400> 474
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 cgagagtctc cattgttgta caggatcttc agttattcga ggggaatgag gcaggtcaag 120
 ccgatgctag ccaactagttt gatttttttt ctgtttttata gtttgcgtg catgggtactt 180
 gtgaagctta aatattttga gtgttctact ggactcagag 219

<210> 475
 <211> 144
 <212> DNA
 <213> Homo sapiens

<400> 475
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 agcttcaaca tatgaatttt cagggttata attcagtcca aagtacttaa tatgattctt 120
 ttccgtttcc acatagtact cgag 144

<210> 476
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 476
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 atgaatctgg ctctaaagta tctattttgc atccatttat atatagatct taaacagaaa 120
 tactctaggt tgccacacca cagttttaag aagttatgct gctgctgtta ctcgag 176

<210> 477
 <211> 155
 <212> DNA
 <213> Homo sapiens

<400> 477
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 gctgttttgc aggttcaaac cttgtactac tcgag 155

<210> 478
 <211> 122
 <212> DNA
 <213> Homo sapiens

<400> 478
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 gtggattcat catctatgac acacactcac tgatgcataa actgtcacct gaagctctcg 120
 ag 122

<210> 479
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 479
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 tagcaaaagaa gatcttttaa ggagttttgg tagccgaact ttaggcgtt tttggagcat 120
 attttttgtt tagcaagatg cacacaagcc acctcgag 158

<210> 480
 <211> 109
 <212> DNA
 <213> Homo sapiens

<400> 480
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 aaatcctcac atcgtttttaa tggtagtagt caagacaagt ttactcgag 109

<210> 481

<211> 182
<212> DNA
<213> Homo sapiens

<400> 481
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tgatgtttta taaaagcaca acaatttcca tgtatttagc gtccaaattg gtagagacaa 120
tgtatttcaa aggcattgaa gcagggaagg ttccctattt tctcatgca gataacctcg 180
ag 182

<210> 482
<211> 144
<212> DNA
<213> Homo sapiens

<400> 482
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aataaatcaa aggttcgagc tgtacatgca gttactgtga ttttagtggt tgtaataaaa 120
tgctgtgaag cacacactct cgag 144

<210> 483
<211> 194
<212> DNA
<213> Homo sapiens

<400> 483
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tttttgaaat gtacagccta atttattcta tgattttaat gtcttttctt ttaattcttt 120
cctctcagta tacttactct ttgacctcaa gaagcctcca attccttaac caaccttttc 180
ccccccct cgag 194

<210> 484
<211> 194
<212> DNA
<213> Homo sapiens

<400> 484
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ttcttaaccg catgaagtcc cgggcgaagt tgtcctcccc attgtggtca ggactcttca 120
tggcctggac cctctggatg aatttctca ggatctccac ttgctccatc ctccgcgctc 180
cccccaaact cgag 194

<210> 485
<211> 228
<212> DNA
<213> Homo sapiens

<400> 485
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tttaaaaaga tcacattttt gtataaaaaa atcttgagag actaggaagc tatttgcaat 120
agttcatgta tgaaatttga atgccaaaaa ctaatttcct tagcattcac ttttttattt 180
atttttcttt attttttaat ttctgtgaag ttactgggtt atctcgag 228

<210> 486
<211> 121
<212> DNA
<213> Homo sapiens

<400> 486
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atcttgatcc actaaattta ttgcatgacc tatgaaatgg atcataaccc aaattctcga 120
g 121

<210> 487
<211> 217
<212> DNA
<213> Homo sapiens

<400> 487
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ctcaaagaga ttccaggacct gcagagtcgc cagaagcatg aaattgaatc tttgtatacc 120
aaactgggca aggtgcccc tgctgttatt attccccag ctgctccctt ttcagggaga 180
agacgacgac ccactaaaag caaaggcagc actcgag 217

<210> 488
<211> 204
<212> DNA
<213> Homo sapiens

<400> 488
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acctattcct gtatggcctt atccaaatcg aaatcacaag aacagaagaa taatgaaaaa 120
acagacaaga gtccattaaa tctcccagaa gttgattcag atgttgctaa gcccaaccag 180
gcatgtattt ccacgggact cgag 204

<210> 489
<211> 288
<212> DNA
<213> Homo sapiens

<400> 489
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ttactgaaaa tgtgggatta caatgaaact cttaaagtgt gccacataag tcaaggaagc 120
cacctaagtc atgggatggg catgagttag acactctgga ataattctga tgctactctg 180
ggactgccct tgcagggttg gacatcagct tctaagggg gctcaccaga gactccttca 240
agggagcatt tcttggtttc catattgtgt ttatgtcatt tactcgag 288

<210> 490
<211> 266
<212> DNA
<213> Homo sapiens

<400> 490
gaattcgcgg ccgcgtcgac ggggagcacc cagtctttaa gagccaagtg ggggcccctt 60
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cttcttcaaa cagtagtaca agtccccctc agccagcctg cctgcccagc gaggccccc 180
ggttcaaggt gttggcgggg gcggagggca ggggaacggg atccttctcc cgctgcccac 240
caacaccaac actcacacac ctcgag 266

<210> 491
<211> 166
<212> DNA
<213> Homo sapiens

<400> 491
gaattcgcgg ccgcgtcgac atccctcttt ggatctctgt ctccccaca gcatggctca 60
gtcatttata attaacacat tagctctcag aagtttgctg ctatttgtcc accttttttt 120
ctttgtgtgc agtgagggaag gctgttctga attgcatgat ctcgag 166

<210> 492

<211> 246
 <212> DNA
 <213> Homo sapiens

<400> 492
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 tatattttgtg tcatgattat tttttgcttg tgtttgaaaa tatattaaag aaaattatat 120
 ttaccacctt aattcttttag tacagatttc taaaaataa gaacattttc ctgtatagtt 180
 acaaatcac cttttcaaac aaaataaaaa atgtttttta tatcatttat taccagtc 240
 ctgcag 246

<210> 493
 <211> 243
 <212> DNA
 <213> Homo sapiens

<400> 493
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 cttcatcaga tattagaatt aggtcacact attgagggtta taatctgaag gttgtgttac 120
 atagaaacca ctttagatta ttatcaactt ggactaggct ttattttata atagcatagt 180
 aagtaatatc tattgtgtca tttcttcaac cattttatc taagatccat gaggtactc 240
 gag 243

<210> 494
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 494
 gaattcgcgg ccgcgtcgac tacacattag tgcattgcgt atatcaactg gccctcaatg 60
 aagcatttaa gtgcttgga ttttactaaa ctgacttttt tgcaactttg ggagattttt 120
 gaggggagtg ttgaaaattg ccaaacactc acctcttact caaaacttca aataaaatac 180
 acattttcaa gagagagcac cctcgag 207

<210> 495
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 495
 gaattcgcgg ccgcgtcgac agctattata taaatatata ttctgggttat agttctaata 60
 tggagatgtt gtgtgcaatg ctggcctgtg gtggctctgt taatgcttta acctgtatgg 120
 aggaggccag gctcagagct gagatgtggc ctgaaccttc cctgtatcga tcttttaatt 180
 tagaactgtc aagatgtctc gag 203

<210> 496
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 496
 gaattcgcgg ccgcgtcgac taattttttc taagtaagat acaaaaaatt ttcattctaaa 60
 gtaatatctt accttatatt gtaaagaagg taggtatatt ggtggctgag gtctcttgaa 120
 attgctaaag ggaaattttt ctatggtaat gctcttacgg ataattctcg ag 172

<210> 497
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 497
gaattcgcgg ccgcgtcgac gaggggaggt acagaaagag gagaggagag aaagagagag 60
agagaggaaa aaaagacagg aaagaaaaga aagaaaagga aagaggaaag gaaagggag 120
ggaaaaggaa aggaagaaag aatgcaaaga ttgagaaaaa tgtgggcact gctgctcgag 180
<210> 498
<211> 182
<212> DNA
<213> Homo sapiens

<400> 498
gaattcgcgg ccgcgtcgac aatccttgag ccagggtgc catataacct gacaggaaca 60
tgctactgaa gtttatttta ccattgactg ctgacctcaa tctagaacgc tacacaagaa 120
atatttggtt tactcagcag gtgtgcctta acctccctat tcagaaagct ccacatctcg 180
ag 182

<210> 499
<211> 174
<212> DNA
<213> Homo sapiens

<400> 499
gaattcgcgg ccgcgtcgac ggagcaataa cttacagtgc agatgaagct cctccctctc 60
attcttcttt cctccctccc ttctctggta gctccttttc cctccctctc gcttccct 120
tccttctttc cttattcttt ttattttgt ttaaatagta ccacagatct cgag 174

<210> 500
<211> 171
<212> DNA
<213> Homo sapiens

<400> 500
gaattcgcgg ccgcgtcgac attttgaagc gtcttttttc ttcttttttt ctttttttgt 60
tttggttttt gttattgata ttaaacagtg taatctttgc aagcgtatat tgaagattat 120
tctggagcat ttattgcctt accagaaatg ttagtaggaa atgttctcga g 171

<210> 501
<211> 169
<212> DNA
<213> Homo sapiens

<400> 501
gaattcgcgg ccgcgtcgac atccgagaaa gggacgctta taagaatatt tgatacttca 60
tcagggcatt taatccagga actgcgaaga ggatctcaag cagccaatat ttactgcact 120
aacttcaatc aggatgcggt tgcattcttt gtcccgacc tgcctcgag 169

<210> 502
<211> 332
<212> DNA
<213> Homo sapiens

<400> 502
gaattcgcgg ccgcgtcgac atcagaagag tatccatcac ccgcagcaac cgctcaggga 60
acaccatcaa aaaagaaaaa aagggaatat ctggatttcc tgggcgagga ggagcgagtc 120
tgctcgggag ctgttccagc aggcgatttt taaatactgc ttctacgcc ctatacaact 180
tggtctcaca tacttttaca ctaactttat atgattttta aaaactggtc tgatcggact 240
tctcgtcctg ggacactgtt tactggagtc tggccggctc tccgtgctcc tcttggtacc 300
tcattttggg gagaacctta aaccacctcg ag 332

<210> 503
<211> 234

<212> DNA

<213> Homo sapiens

<400> 503

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gaattcgcgg ccgcgtcgac attcaatttg cattgtaatt cagccactgc caggatgaga 60
tcctacttct gggttttcagc catctcagct ctgcatttat gggacataag ggcagacata 120
gaaacttttg attcattcat gtggtgcttg agctgggaat ttgaatccct gaattcattc 180
ttcttttttc cccacttttg tctagtacaa ttaggagcaa caaccactct cgag      234
```

<210> 504

<211> 147

<212> DNA

<213> Homo sapiens

<400> 504

```
gaattcgcgg ccgcgtcgac aggacttatg atccaattca caaaagatt aatgaaacc 60
accctgtgtt ttaaaatata tataatgttc aacctaatgt atatgcaaca tttattctat 120
tctaattatt tgacagggaa actcgag      147
```

<210> 505

<211> 311

<212> DNA

<213> Homo sapiens

<400> 505

```
gaattcgcgg ccgcgtcgac gcctcgaatt ggatcggtt ttttttttc ctccaggag 60
aaggggagaa atgtacttgg aaattaatgt atgtttacat ctctttgcaa attcctgtac 120
atagagatat attttttaag tgtgaatgta acaacatact gtgaattcca tcttggttac 180
aaatgagact ccttcagtca gttatccaaa taaaagcagt tctgaaacta tccctttctt 240
tgttatgggt ggaagggtgg gctccaggcc ttgcagctct gtgggttata aaatgtgcag 300
aggccctcga g      311
```

<210> 506

<211> 207

<212> DNA

<213> Homo sapiens

<400> 506

```
gaattcgcgg ccgcgtcgac gtcacaaatg actttttttt tttcaattaa ggaaaaagct 60
ccatctctac ctttaacatc acccagaccc ccgcccctgc ccgtgcccc cgtgtgtgt 120
aacgacagta tgatgcttac tctgctactc ggaaactatt tttatgtaat taatgtatgc 180
tttcttggtt ataatgccca cctcgag      207
```

<210> 507

<211> 374

<212> DNA

<213> Homo sapiens

<400> 507

```
gaattcgcgg ccgcgtcgac gtactctaaa gttagaatct cctgatcttt cagagatgc 60
tggactggag attggcaagt gcacatttca tcctggctgt gacactgaca ctgtggagct 120
cagggaaaagt cctctcagta gatgtaacaa caacagaggc ctttgattct ggagtcatag 180
atgtgcagtc aacacccaca gtcagggaag agaaatcagc cactgacctg acagcaaac 240
tcttgcttct tgatgaattg gtgtccctag aaaaatgatgt gattgagaca aagaagaaaa 300
ggagtttctc tgggttttggg tctcccttg acagactctc agctggctct gtagatcaca 360
aaggtcgct cgag      374
```

<210> 508

<211> 195

<212> DNA

<213> Homo sapiens

<400> 508

```
gaattcgcgg ccgcgtcgac cttggatata caactttcca tctaaaacct actgtctttt 60
ctgtcttttc attgcattac cacttccacc cctgcaaact gattcatcat gatctccagt 120
cccttgatca ctactttctc tctagttttg ggctccctca acctcacttc ctacctgatg 180
gggcctaaac tcgag 195
```

<210> 509

<211> 181

<212> DNA

<213> Homo sapiens

<400> 509

```
gaattcgcgg ccgcgtcgac caaagtcgaag cctccgaagt acctgttga tagctgtgcc 60
cctctgctcc gatacctgtc ccactcagaa ttttaaggatc tgatactgcc caccatacag 120
aagtccttac tgaggagtcc agagaatgtt attgaaacta tttctagtct gcgggctcga 180
g 181
```

<210> 510

<211> 160

<212> DNA

<213> Homo sapiens

<400> 510

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gaattcgcgg ccgcgtcgac taagattaaa gattcttagt gagatcatct tgccaatttg 60
ttgtacatct ctcattcatt gttgggggaa aaaaaagcac aactatacct cttaaatgtt 120
atcttcttcc attatccctc tgactcgggt tctccctata 160
```

<210> 511

<211> 214

<212> DNA

<213> Homo sapiens

<400> 511

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gaattcgcgg ccgcgtcgac cgagttatct ttattagcct tttttgaatt gaatatctct 60
ggtattttct aaactagaat tgcacttaat tctaataatat aaatttattt attgaattgg 120
taaaaagaga ttggccctctg ttctagcttt gtgactgttg tgctctcata aaaagtctac 180
tatatttatg attgttaggc gctatctgct cgag 214
```

<210> 512

<211> 209

<212> DNA

<213> Homo sapiens

<400> 512

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gaattcgcgg ccgcgtcgac ggggggttcta gaacatgtgt gaataagtcc ttgttttatt 60
ctcagcctct atgaggggaa tgaatgcca gagaccagag cccattctg cagctcctcc 120
ctgttttagc tggtggaaaac tggcctccaa actctgcagt gacaacacaa gatggccgtg 180
aagcaagcct ggcaccagag ggtctcgag 209
```

<210> 513

<211> 143

<212> DNA

<213> Homo sapiens

<400> 513

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gaattcgcgg ccgcgtcgac ctcgagtttc aaaacataat agtatacaaa atataaaata 60
tcttaaatat ttataaaaat cacaagaaaa aaatagaacg tatgaaaata tttttatctg 120
agttctcccc cattattctc gag 143
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<210> 514
 <211> 130
 <212> DNA
 <213> Homo sapiens

<400> 514
 gaattcgcgg ccgcgtcgac gtcactctttt gtcagttaaag ttttgtaact tcctcacaaa 60
 gttctcgtgc ttcttataaa taatgtatctt tacatcttac acttctattg ctattataca 120
 ttgcctcgag 130

<210> 515
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 515
 gaattcgcgg ccgcgtcgac gctctgaata gttaaaaatt aaatatattat tttcttcccc 60
 aagcttttagg taaggagaag aggggtcaag agttaaaact agagaccctt tgtctctgag 120
 aagcatcctt ctaagacatt ctgttggagt tccctcagta ctattcctta caactggagt 180
 gggtagaagc cttatgaaaa ttatactgag aacctgcctc gag 223

<210> 516
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 516
 gaattcgcgg ccgcgtcgac tttaaaagag tgtaaatggaa gatgagaggg attctatttt 60
 ggaccacatg ttggtgtgga ggagtgtcat tgacagtaag caccaccaggc gtgtgtcttg 120
 gagagcattg ggtatcgctc acttctgcag gtacttgctt ttttttctca tggccgaaac 180
 tcgag 185

<210> 517
 <211> 156
 <212> DNA
 <213> Homo sapiens

<400> 517
 gaattcgcgg ccgcgtcgac gccccagtg tcctttctgc tgcaggtgcg tttttgctgt 60
 tcacaaatgc ttctgctgtg ccttcttttg tgtgttctgc ctcttctcct gagactgctg 120
 ttcttccaag ttcagggtga gtctgatctc ctcgag 156

<210> 518
 <211> 213
 <212> DNA
 <213> Homo sapiens

<400> 518
 gaattcgcgg ccgcgtcgac ctccccacat tcataaacact tagattttatc aaagtagttt 60
 cgccttcgga tgaactcagc tgctcttcca ttgtcaatag caatgcttgc ttttatcact 120
 ctaccaaata actgtttgtt gtttattgac ctggtacagt tttgtgcaga gtctttatcc 180
 aaaaataaaa taaatgcaac ccctttactc gag 213

<210> 519
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 519
 gaattcgcgg ccgcgtcgac tcgggaagct ataaaaattg taaaaggctc attagtaata 60

```

ttacacagga tactttaagg cagccctgca gagtagcatg catctagctc ccagagtttc 120
tttatgcatt aatattgcac atgtctctct taccatgtg ggcaaggcag cccaccagcc 180
cctcataacc ctcgag 196

```

```

<210> 520
<211> 238
<212> DNA
<213> Homo sapiens

```

```

<400> 520
gaattcgcg cgcgctcgac agatgttccg gccaccccg accctacact gcagtgtctg 60
cgacaactgt gtggaacgat ttgaccatca ctgcccctgg gtgggcaact gtgtggggag 120
acggaaactat cgtctcttct acgcgtttat tctctccctc tcattcctga cggccttcat 180
cttcgcctgt gtgggtcacc acctgacgtt gcgcgctcag ggaagcaact tcctcgag 238

```

```

<210> 521
<211> 197
<212> DNA
<213> Homo sapiens

```

```

<400> 521
gaattcgcg cgcgctcgac gtgagagctc agagctacag agcctttcag atgaatttga 60
aaacagactc tgtgtgtgtg tgcattgtgt catgtgtggc atatgtgccg tatgtcagta 120
gcttgacagt tttcaaatcg tgccatattt tttttgcata cacaattttt tgtgttttga 180
aactcagaat cctcgag 197

```

```

<210> 522
<211> 270
<212> DNA
<213> Homo sapiens

```

```

<400> 522
gaattcgcg cgcgctcgac aaacttcaac acaatgaggt gttgccacat ctgcaaactt 60
cctgggagag taatggggat tcgagtgcct cgattatctt tgggtggcat cctcgatta 120
ttactggtag ctggtgcttt gactgcctta ctcccgatg ttaaagaaga caagatgtct 180
atgttgcgta gggaaataaa atcccagggc aagtcacca tggactcctt tactctcata 240
atgcagacgt acaacagaac agatctcgag 270

```

```

<210> 523
<211> 208
<212> DNA
<213> Homo sapiens

```

```

<400> 523
gaattcgcg cgcgctcgac ctcattcaat tcattacttc aatcaaccct attcaaatct 60
tgtgcattct tactactga tgatgccgt gaacttctgc ctcttttatg ctgttacctc 120
ctcttccct ctccttcacc ttagccctcc tagacctgac atcaattaca gcgggactaa 180
ggtgcaggga acacggccca tgctcgag 208

```

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<210> 524
<211> 230
<212> DNA
<213> Homo sapiens

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```

<400> 524
gaattcgcg cgcgctcgac attttaagga agctacttga attgctcatt ctgtgacttt 60
atttgtgtcc taaacattct tcagtgaata taattttatt tcagtcaaac atttatgagg 120
aaatgagatc acatctttgt cactggatgc tacttgaaga gggagtactt tgtaaccact 180
ttgatattgt gttatcacca cccctgccc tccgcaagggt tctccctata 230

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<210> 525
 <211> 641
 <212> DNA
 <213> Homo sapiens

<400> 525
 gaattcgcgg ccgcgtcgac ctacaagcag ctccctctcc tgctgtacca agtgacaagg 60
 aagtttcggg atgagccag gcccgccttc ggtctctctc gtggccgaga gttttacatg 120
 aaggatatgt acacctttga ctctcccca gaggtctgcc agcagacctc cagcctgggtg 180
 tgtgatgcct actgcagcct gttcaacaag ctagggtctgc catttgtcaa ggtccaggcc 240
 gatgtgggca ccacgtgtct catgagttcc agctcccagt ggataattga 300
 gaggaaccggc ttgccatctg tcccgcgtgc agcttctcag ccaacatgga gacactagac 360
 ttgtcacaaa tgaactgcc tgcttgcag ggccattga ctaaaaccaa aggcattgag 420
 gtggggcaca cattttacct gggtaccaag tactcatcca ttttcaatgc ccagtttacc 480
 aatgtctgtg gcaaaccaac cctggctgaa atggggtgct atggcctggg tgtgacacgg 540
 atcttggtct ctgccattga agtctctctc acagaagact gtgtccgctg gccagacctc 600
 ctggcccttc accaagcctg cctcatcccc cctaactcga g 641

<210> 526
 <211> 264
 <212> DNA
 <213> Homo sapiens

<400> 526
 gaattcgcgg ccgcgtcgac ctactttatc ctgataaaac aggtctatgc agctaccagg 60
 acaatggaat ctacgttgac tttagcaacg gaacaacctg ttaagaagaa cactcttaag 120
 aaatataaaa tagcttgcac tgttctctct gctttgctgg tgatcatgtc acttggatta 180
 ggcctggggc ttggaactcag gaaactggaa aagcaaggca gctgcaggaa gaagtgcctt 240
 gatgcatcat ttagagaact cgag 264

<210> 527
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 527
 gaattcgcgg ccgcgtcgac ggcatttctg tcgaacacga gtagcagtgg tggaaagtgt 60
 aattggagga agattaagac tagtgtatga agaaagcgaa gatagaacag atgacttctg 120
 gtgccatag cacagcccat taatacatca tattggttgg tctcgaagca taggtcatcg 180
 attcaaaaga tctgatatta caaagaaaca ggatggacat tttgatacac caccaacgct 240
 cgag 244

<210> 528
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 528
 gaattcgcgg ccgcgtcgac ccttttttgt gaattgagtg ctgtttttgc ttttctcaga 60
 ttccaaatga gagtatacat ttttctttgt ttgatgtgct gggtgagatc tggctctgac 120
 cctgctgggc caaggttctc cagaaaacca ccatatagca gattagatta cacggatgca 180
 aagtttctgg atgtcatcca tctgactcc aatgcctatt attttgttct cagtataatt 240
 gttccagata aaactatgat gggatgaactc gag 273

<210> 529
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 529

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gaattcgcgg ccgcgtcgac ctttcattta tcatatgact tggtagaaac cgtttttctt 60
accgtataaa accctgagctc tttagttatt ttggaaaatg aaagcacgtt cattgtcgtt 120
ctgttgggtt tccaacagaa cttggttctt gtggttactc aatatttcat tgtgttttagg 180
cctgtgggat ggagagttac caccaagagc tagaaatcag gccataaacc caccagccaa 240
tgctctccga ggaggagcca gccaccctgg aaggcatcct agggccaaca accatcctgc 300
tgcttactgg cagaggggaag agagatttag ggccatgggc aggaaccac atcaagggaag 360
gaggaaccag gaggggcatg ccagcgacga agctagagac caagaactcg ag 412

```

```

<210> 530
<211> 110
<212> DNA
<213> Homo sapiens

```

```

<400> 530
gaattcgcgg ccgcgtcgac cctaaaccgt cgatggaatt ccagtagcgtt ttgttgtaca 60
ttttagtctt gtttactttc tcttcattgt taagagtatg caaactcgag 110

```

```

<210> 531
<211> 257
<212> DNA
<213> Homo sapiens

```

```

<400> 531
gaattcgcgg ccgcgtcgac agacaacatc accctagccc aagacatcgc tattagagat 60
acatcacctg gacactaaag cctccacccc agtgacactc tcaagggtgct gacaaaatgg 120
acatggacat ttgttgcttt tcttcttttg aattaggaac tctatttgtt ttcctgaatt 180
tactgtctgc ttggcccatg atcctgggtat gtcccttgct ctctgccaaa acatgcaccg 240
tccccccac actcgag 257

```

```

<210> 532
<211> 195
<212> DNA
<213> Homo sapiens

```

```

<400> 532
gaattcgcgg ccgcgtcgac tgtattctgg gtcactttct cttgcatagc tatcctcatt 60
ccagtagttt tcatgggctg cctaagaata ctgaacatac tgacttgttg agtcattggc 120
tcctattcgg tggtttttagc cattgacagt tactgggtcca caagcctttc ctacatcact 180
tcgaacgtac tcgag 195

```

```

<210> 533
<211> 197
<212> DNA
<213> Homo sapiens

```

```

<400> 533
gaattcgcgg ccgcgtcgac gttttattta ttgctttttt ttctggctcc tgagtggcaa 60
acaaagggaat tttttatgct ggagataact tgtattattg atctaagttt aatatcttga 120
cctgtttgat ctgagagtct gttatagata tgtatctatt ttccttccct ccttccctcc 180
cctccttctt tctcgag 197

```

```

<210> 534
<211> 225
<212> DNA
<213> Homo sapiens

```

```

<400> 534
gaattcgcgg ccgcgtcgac ctttaaccag cctcatttaa gttaatcacc tctttaaatg 60
ctcaatctcc aagtacagtc tcattctgag gtccaggggg tttctcaacg taagaattta 120
gggggacaga attcagcccc tagcagctgg gcagcaggac tcatgggtcc cagttctcag 180

```

gccccaaagga ctcagagcag caaaggatac gtgacagatc tcgag

225

<210> 535

<211> 177

<212> DNA

<213> Homo sapiens

<400> 535

gaattcgcg cgcgctcgac attctagacc agcctcacca gatggaagtt tatgcttatt 60
ttcttatttc acttggtgt catggatctc atttcttctt tctgtctcat cctctactat 120
tcacccctct ccatagaccc atccctccct tggctatttg aacaactcaa gctcgag 177

<210> 536

<211> 403

<212> DNA

<213> Homo sapiens

<400> 536

gaattcgcg cgcgctcgac cctggagctt aaaaagctgc acgcaagtgt taaacttctg 60
acaatggcca agaacaaatt aagagggccg aagtcagga atgtatttca catagccagc 120
caaaaaaact ttaaggctaa aaacaaagca aaaccagtta ccactaatct taagaagata 180
aacattatga atgaggaaaa agttaacaga gtaataaag cttttgtaaa tgtacaaaag 240
gaacttgac atttcgcaaa aagcatttca cttgaacctc tgcagaaaga actgattcct 300
cagcagcgtc atgaaagcaa accagttaat gttgatgaag ctacaagatt aatggctctg 360
ttgtaataata ctggtgatgc atctaattct ccacacactc gag 403

<210> 537

<211> 247

<212> DNA

<213> Homo sapiens

<400> 537

gaattcagaa cttttcagct gggaacgag agtaccagt agtacagctt tacgaggtaa 60
gtctgatctt gaactttcta aggaaattca agacagtcta tcagaagtaa agtggaatat 120
gtttggcctt gaatttttct tagtgttaga agcccttttg ttccttttca catgttatca 180
agtggttaag gcagggcgga ttctagatga aattcaggac aatctatcag aagtaaaggc 240
actcgag 247

<210> 538

<211> 396

<212> DNA

<213> Homo sapiens

<400> 538

gaattcagcc aaagaggcct aaaaaaggag aagaaagaaa agaaacctgc tgttggcgta 60
tttgggatgt ttcgctatgc agattggctg gacaagctgt gcatgattct gggaactctc 120
gctgctatta tccatggaac attacttccc ctcttgatgc tgggttttgg aaacatgaca 180
gatagtttta caaaagcaga agccagtatt ctgccaagca ttactaatca aagtggacct 240
aacagtactc tgatcatcag caacagcagt ctggaggaag agatggccat atacgcctac 300
tattacaccg ggattggtgc tgggtgtgctc atagtggcct acatccaggt ttcacttttg 360
tgcctggcag ctggaagaca gatacacagg ctcgag 396

<210> 539

<211> 342

<212> DNA

<213> Homo sapiens

<400> 539

gaattcggcc aaagaggcct acttgtgac tagtccctgc ctggtaattg tggattaatg 60
tcagcgtaa tcagccctc aaaggagag aaaaagctggg cttttccctt gctgtacctc 120

attcagcttt tgatttccat ggccccacca tttatgtgca agatttgcaa tgggtgtcag 180
 cttcctctga agaccgagct tgacgcctcc atgccagctg ccgttggaac gcaaagccaa 240
 gcaaggggtca ggaggggaagc tggcccggtc gactggagaa tgggaacccc aggactctcc 300
 actcatctcg aagggttctg gtccccccag gaaagtctcg ag 342

<210> 540

<211> 249

<212> DNA

<213> Homo sapiens

<400> 540

gaattcggcc aaagaggcct atggtagctg ttcggtagat gctctttgct atttataagt 60
 gacttttaaac cttctcttgg ctgttaagaa atgtgttcta gatttagcta tttattgttt 120
 gcggcctgca tgctgaaaca gtgcttacgt tgtctccatg tgtacggggc ctgtgtggat 180
 ggtcgtatgt tttgcacatt ttgtagtgtg tgggtgtgct cgccgcacac aaaaaaagag 240
 tacctcgag 249

<210> 541

<211> 230

<212> DNA

<213> Homo sapiens

<400> 541

gaattcggcc aaagaggcct acagagaccg tggacaacaa aatgatgggt tctatctgtg 60
 aacagaagct gcagcacttc agtgctgtct tctgtctcat cctctgcttg ggaatgatgt 120
 cagctgctcc accccctgat ccaagtcttg ataatgagtg gaaagaatgg aagacgaaat 180
 ttgcaaaagc ctacaatctg aatgaagada gacacaggag acatctcgag 230

<210> 542

<211> 365

<212> DNA

<213> Homo sapiens

<400> 542

gaattcggct aaagaggcct accaactgca gcctccgagc agagaacctg gtccacgtcc 60
 acttcaaaga ggagattggc attgctaagc tcatcccgct cgtgaccacc tacatcatcc 120
 tgtttgccca catctacttc tccacacgca agatcgacat ggtcaagtcc aagtggggcc 180
 tcgccttgcc agccgtggtc acagtactta gctcactgct catgtctgtg gggctctgca 240
 cctctctcgg cctgacgccc aactcaatg gcggtgagat cttcccatac ctggtgggtc 300
 ttattgggct agagaacctg ttggtgctca ccaagtcagt ggtatcaact ccagtggacc 360
 tcgag 365

<210> 543

<211> 366

<212> DNA

<213> Homo sapiens

<400> 543

gaattcggcc aaagaggcct aggatattca tcaaggatgg tgcagaagat gctgacctcc 60
 cgaggactgt tctgatacct gacaatgtcg aacttgtctc aggttcctag tataatgggt 120
 gagcagagat gggctattct ctcaacttcc cctaaaccaa tgccagttcg ccatgatgct 180
 atagtttttc caaaattcgt tactactgat aaaacagtgg atttgccata ttaccctat 240
 gatccacccc gagcaccatt aggagaaaat cgctctttac tagaacaggg ttctttatgt 300
 ttcaaaatta atggaccagg aaattgtatc aacctcacag cccgagcttt gggggtgagt 360
 ctcgag 366

<210> 544

<211> 365

<212> DNA

<213> Homo sapiens

<400> 544
 gaattcggcc aaagaggcct acagagatga agcctccctc ccccttgact tgggttttta 60
 tttttttctt tcttgtagca tctgcatctc taatggatac tgaggggttt ggtgagctcc 120
 ttcagcaagc tgaacagctt gctgctgaga ctgaaggcat ctctgagctt ccacatgtag 180
 aacgaaatct acaggagatc cagcaagctg gtgagcgcct gcgttcccgt accctcacac 240
 gcacatccca ggagacagca gatgtcaagg catcagttct tctcgggtca aggggacttg 300
 acatatccca tatctccag agactggaga gtctgagcgc agccaccact tttgaacctc 360
 tcgag 365

<210> 545
 <211> 475
 <212> DNA
 <213> Homo sapiens

<400> 545
 gaattcggcc aaagaggcct accagcgcgg aacaaacatg cagcggctcg ggggtatttt 60
 gctgtgtaca ctgctggcgg cggcgggtccc cactgtctct gctccttccc cgacgggtcac 120
 ttggactccg gcggagccgg gccagctct caactaccct caggaggaag ctacgctcaa 180
 tgagatgttt cgagaggtgg aggagctgat ggaagacact cagcacaaac tgcgcagtgc 240
 cgtggaggag atggaggcgg aagaagcagc tgctaaaacg tctctgagg tgaacctggc 300
 aagcttacct cccaactatc acaatgagac cagcacggag accaggggtgg gaaataaac 360
 agtccatgtg caccaggaag ttcacaagat aaccaacaac cagagtggac aggtggtctt 420
 ttctgagaca gtcattacat ctgtaggggga tgaagaaggc aagaggaacc tcgag 475

<210> 546
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 546
 gaattcggcc aaagaggcct acaacgtcta aattatgtgc cactcgcgca accatctcca 60
 caccatgact ggcttgaggg ccccttctcc agctccctcc accggcccgg aactccggcg 120
 gggctctggg cccgaaatct tcacctctga cctctctccg gagcgggccc tgggtgtccac 180
 cgcgcgtttg aacacttctc gcgggcaccg aaaacgcagc cgaaggggtgc tctacccccg 240
 agtgggtccg gcgcagctac caaccgagga acccaacatt gccaaagagg tctctcttct 300
 cctgttcgcc atcatcttct gccagatctt gatggctgaa gaggggtgtg cgcagccctc 360
 ggctccggag gatgctacca gcgccgtgac acctgagccc atttctgcgc ccattactgc 420
 gccccgggtc ctcgag 436

<210> 547
 <211> 393
 <212> DNA
 <213> Homo sapiens

<400> 547
 gaattcggcc aaagaggcct acgcatecac tgccgtccgg tcagacacgc tgaaggctgc 60
 gctctgtcga agacttttga tgtgtctgac attctcttgc actttctcca gcagctggcg 120
 cactgcccgg cagtagttag ccacttttga ctcccggaga aaagatttca gctgtagaac 180
 agtaggcaac accaactctg ggaaagcgat ggtgtggggc tggctgcgca ggtattccag 240
 agtaagggtc cacagctgtt ccagcagccc gtcccgttac gccttctcct gcaggttggg 300
 gctggacagc ttcaagatca cagagaagtt gatgggcttg gagctcatgc gacctggccg 360
 cctattgaag tccacctgct ggaaaatctc gag 393

<210> 548
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 548
 gaattcggcc aaagaggcct agctggttaa tcaactcata gatcttgtcc agatacaact 60

```

agatgtatta tgacaaataa ctcagcaggg atgtgaacaa aagtttccgg gattgtgtgt 120
tatttccatt cagtatgtta aatttactag ggcagctaata ctgtcaaaaa gtctttttca 180
gtatatgtta cagaattgga tgactgaatt tgaacagacc cttcgaggct tgccatcatt 240
caggtcaact ccacgcgctt ggacctgtcc ctgaccaaag gattacccaa ttggatctcc 300
tcagcatttt ctttctttaa aaaatgggtg ggattaatat tatttggaga tacactttgc 360
tgtggattag tgttgcttct ttgattggtc tgtaagctta aggcctaaac taggagagac 420
aaggtgggta ttgcacaggc actcgag 447

```

<210> 549

<211> 313

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (220)

<400> 549

```

gaattcggcc aaagaggcct aaagaaaggg ggctgcagaa atggctgggg caattataga 60
aaacatgagt accaagaagc tctgcattgt tggagggtt cttctgggtt tccaaatcgt 120
tgctttctctg gtgggaggct tgatcgtctc agcacccaca acagcagtac cctacacggc 180
aataaaatgt gtggatgtcc gtaagaacca ccataaaacn agatggctgg cgccttgggg 240
acctaacaag tgtgacaaga tccgtgacat cgaggaagca attccaaggg aaattgaagc 300
aatgagctc gag 313

```

<210> 550

<211> 392

<212> DNA

<213> Homo sapiens

<400> 550

```

gaattcagcc aaagaggcct agaggaaatc tttaagacat ggctggagct aaggcgtacc 60
gacttggagc agttctgctt cttatccact taattttcct catctctgga gccgaagcag 120
cttccttcca gcgaaccag ctgcttcaga aagaaccaga cctcagattg gagaatgtcc 180
aaaagtcttc tagtccagaa atgatcaggg ctttggagta catagaaaag ctcaggcagc 240
aagctcacag agaagaaagc agcccagact acaatcccta ccaaggcgtc tctgttcctc 300
ttcaactcaa agaaaacgga gaagaaagcc acttggcagg gagctcaagg gatgcactga 360
gtgaagacga gtggatgcgg ataatactcg ag 392

```

<210> 551

<211> 419

<212> DNA

<213> Homo sapiens

<400> 551

```

gaattcggcc aaagaggcct atgagcttat agcttccaag ggccccctt ggctattttc 60
ttcctccatc agtcaagtgt ttaattcagt gtaacctacc agtctgtcct gggttgcatg 120
tctagcatatc gtggagggtc tttttcactt tcttgacct catgtctgct tctcttgagt 180
ctttgttttt atagcaggaa gttagtattg ggggcttgaa tgatgcaggg caccaacaga 240
accattgcag gactgaaatc ccagactac cgataccttg gtggtcgggt ctcagcttca 300
ctaagaaagc agaacggctg cttatgtgta agcctctgtg acagtcaagg gggtcacac 360
ctacattatt gctgccaggg gtcacagccc tgacctttgc cttccagact tttctcgag 419

```

<210> 552

<211> 223

<212> DNA

<213> Homo sapiens

<400> 552

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gaattcggcc aaactcttta tctgttttgt taaaacatta taattttcct aggtgaggaa 60

```

```

aatgttaggg aaattgagag tgaaggacgg ttcttggcag gtcaggggggt ttatttttat 120
ttttatctat ttttttttat tgtttctcct tagctgctgt ctgttcagtt ttgagactct 180
tcagtttcta gctttatatt catacaaagg cgttgcgctc gag 223

```

```

<210> 553
<211> 289
<212> DNA
<213> Homo sapiens

```

```

<400> 553
gaattcggcc aacatgacga agttaacaca gtggttttgg ggactggctc tcctgggctc 60
tgccctgggct gccctgacca tgggagcact gggcttggag ttgcctttcc cctgccgaga 120
ggtcctgttg ccactgctg cctacctgtt ggtctccgct ggctgctatg cctggggcac 180
ggtgggctat cgcgtagcta cattccacga ctgcgaggac gctgcccag agctgcagag 240
ccagatcgtg gagggccgag ctgatttagc acgcaggggc attctcgag 289

```

```

<210> 554
<211> 331
<212> DNA
<213> Homo sapiens

```

```

<400> 554
gaattcggcc aaagaggcct agttttctcg ctatattcca ggtcctacag tgtgtttttc 60
tcagtttggg agtttttcag tgtttctcat catattccag gacatacatt tttcaagtca 120
atttttccac gttattcagt tttctccaca cattccaggt catagagtgt ttgtgtctct 180
tttccatgtt tttcagtttc ctcccataat ccagggtacta cagtgtgttt tttttcattt 240
atctcgttat ataccatttt ttaccatatt ccagggtccta ctcttgtgtt tctcattttc 300
catgatttta cattttcatg ctttactcga g 331

```

```

<210> 555
<211> 391
<212> DNA
<213> Homo sapiens

```

```

<400> 555
gaattctgcc aaagaggcct accagcaccg ggtgccaggg gccatggagc cccgggcagt 60
tgccgatgcc ttggagaccg gagaggaaga tgcggtgaca gaagctctgc ggtcgttcaa 120
ccgggagcat tctcagagct tcaccttcga tgatgccag caggaggaca ggaagagact 180
cgcaaagcta ctggctctcg tcttggagca gggcttgtca ccaaagcacc gtgtcacctg 240
gctgcagact atccgaatcc tatcccagga ccgcagctgc ctggactcat ttgccagccg 300
ccagagctta catgcactag cctgctatgc tgacattacc gtctcagagg aaccatccc 360
acagtcccca gacatggatg tctcctcga g 391

```

```

<210> 556
<211> 480
<212> DNA
<213> Homo sapiens

```

```

<400> 556
gaattcggcc aaagaggcct aagacgatca gataccgtcg tagttccgac cataaacgat 60
gccgactggc gatggtggca aaggcaattg aggaggattc tgaatgatgc ggcccatttc 120
tacacctcca aaaatcacct gtccaggatt ggagtaccga ctggagactg ggtactgggt 180
agcagcatca cctgcatgct ctgctgaccc tacagctgtt gtctgattgg ttaagacatc 240
caactgcaca ttttgattgg ccagcagggg ctgcaccagc cctatgctct ggggtgggaga 300
cagagcttga gcagagctgt ggattgggtc aataggggatg ttcactgtac agggcggggt 360
gttttcaggg acacctgatg ctctgttaac tggtaagtca tctcatctt cactgaaaac 420
gtttgggttg aagacaggca ggttaatata gtccatggaa atcttccata ctctctcgag 480

```

```

<210> 557
<211> 406

```

<212> DNA

<213> Homo sapiens

<400> 557

```

gaattcggcc aaagaggcct agatgaagaa agcacacgtg ttggggatca cgttctcctt 60
caccagggcc atgatgtatt tttcttatgc tgettgtttc cggttcgggtg cctacttggg 120
ggcacaacaa ctcatgactt ttgaaaatgt tatgttggta tttctgctg ttgtctttgg 180
tgccatggca gctgggaata ctagttcatt tgctcctgac tatgcgaaag ccaaagtatc 240
agcatctcat atcatcagga tcattgagaa aaccctgag attgacagct acagcacaga 300
gggtttgaag cctactctgt tagaaggaaa tgtaaaattt aatgaagtcc agtttaacta 360
tcccaccgca cccaacatcc cagtgttcca ggggctgagc ctcgag 406

```

<210> 558

<211> 337

<212> DNA

<213> Homo sapiens

<400> 558

```

gaattcggcc aaagaggcct atctgaatat gcgttgtttg gcagctcggg tcaactataa 60
gactttgatt atcatctgtg cgctattcac tttggtcaca gtacttttgt ggaataaagt 120
ttccagcgac aaagcaatcc agtttcctcg gcacttgagt agtggattca gagtggatgg 180
attagaaaaa agatcagcag catctgaaag taaccactat gcccaaccaca tagccaaaca 240
gcagtcagaa gaggcatttc ctcaaggaaca acagaaggca cccctgttg ttgggggctt 300
caatagcaac gggggaagca aggtgtttgg gctcgag 337

```

<210> 559

<211> 374

<212> DNA

<213> Homo sapiens

<400> 559

```

gaattcggcc aaagaggcct acctcaacgc caccaccgcc tcctcactcc atggccatga 60
gagccgcctg cctcttcctg ctgttcatgc ctggcctgct ggctcagggc caatatgacc 120
tggtacctct cccccattc cgggacctg tccagtacaa ccactatggc gaccagattg 180
acaacgcaga ctactatgac taccaagaag tgagtcctcg gacccctgaa gagcagttcc 240
agtcccgaca gcaagttcaa caggaagtca tcccagcccc taccacagag ccagcagctg 300
caggggacct ggagactgag cctaccgagc ctggcctctc tgactgccgc gaagaacagt 360
accattact cgag 374

```

<210> 560

<211> 285

<212> DNA

<213> Homo sapiens

<400> 560

```

gaattcggcc aaagaggcct agccgctgcc gtcgccatga cccgcggtaa ccagcgagag 60
ctgcgccgcc agaagaacat gaagaggcag agcgactcgg ttaaggaaag cgcagagatg 120
atgggctttc tgctgccgcc cgcaagcaga gggactcggg gatcatgcag cagaagcaga 180
aaaaggcaaa cgagaagaag gaggaaccca agtagccttg ttgcttcgtg tccaaccctc 240
ttgccctccg cctgtgtgcc tggagccagt cccaccatgc tcgag 285

```

<210> 561

<211> 425

<212> DNA

<213> Homo sapiens

<400> 561

```

gaattcgggc aaagaggcct acgaggagaa tggagaccaa acctgtgata acctgtctca 60
aaaccctcct catcatctac tccttcgtct tctggatcac tggggtgatc ctgttggccg 120
ttggagtctg gggaaagctg actttgggaa cctatatctc cctgattgct gagaactcca 180

```



```

caaatgctcc ctatgtgctc attggaaccg gcaccacccat cgtgggtttt ggctctcttg 240
gatgctttgc tacatgccgt ggtagtccat ggatgctgaa actgtatgcc atgttctctg 300
ccctgggtgt cctggctgag cttgttgctg gcatttctgg atttgtgttt cgtcatgaga 360
tcaaggacac ctctctgagg acttacacgg atgccatgca ggactacaat ggcaacgaac 420
tcgag                                           425

```

<210> 562
 <211> 238
 <212> DNA
 <213> Homo sapiens

```

<400> 562
gaattcttca gctgaggaac ggtggtacca ggtgaagaaa atccactttg ggtcccgacg 60
cgactgacaa ggaccgtgaa agagcaagat gaacccaag atgattctcc tgcctctgat 120
gattgagaca gggataagta tacctttgtg ggcctatgta agatcatggc cagtaccttt 180
accggtacat tccaattctt ctaccttgcc tttatttttt gcaacagaaa ctctcgag 238

```

<210> 563
 <211> 359
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (203)

```

<400> 563
gaattcggcc aaagaggcct agtttgagca cttcagcctc ttttttgtct gcgtgtttca 60
gatcaacgtc ttcttctaca cagttccatt agccatcaaa ttaaaggagc atcccatctt 120
cttcagtgtc attcagattg ccatcatctc tatcttcaag tcctatccaa ctgtggggga 180
tgtggccctc tacatggctt tcnttccctg tgtggaacca tctctacaga ttctgcgga 240
acatcttcgt cctcacctgc atcatcatcg tctgtctctt ttcttccctg tgtggaacca 300
tctctacaga ttctgcgga acatcttcgt cctcacggc atcatcatcg tccctcgag 359

```

<210> 564
 <211> 399
 <212> DNA
 <213> Homo sapiens

```

<400> 564
gaattcggcc aaagaggcct agctttgggc tggaccgagc ggggcagcgt cccgggctcc 60
cgagtgtctc ccatggcgga tacgaccccg aacggccccc aaggggcggg cgctgtgcaa 120
ttcatgatga ccaataaatt ggacacagca atgtggcttt ctgcctgtt cacagtatat 180
tgctccgctc tgttcgttct gcctcttctt gggttgcatg aagcagcgag cttttaccag 240
cgtgctttgc tggccaatgc tctgaccagc gctctgaggc tgcacagag attacctcac 300
ttccagttga gcagagtgtt cctggtctag gccttggttag aggacagctg ccaactacct 360
ctgtattcac tcatcttctt caactcctac cccctcgag 399

```

<210> 565
 <211> 373
 <212> DNA
 <213> Homo sapiens

```

<400> 565
gaattcggcc aaagaggcct aggcgacaag agtctggagg tggcggtatg gaatccatt 60
aagggtgcgt tgggagtga cagagtctct ttgaccagc tagagcgcca gcgtctctct 120
gaaccggcac actttggcaa agttgcaatg gcctgtttgc ttaggcactg aagtggatga 180
tgggttaggat gacaacttgc agagaacgcg gatgagacct tcagtgtgtg cccacactca 240
tttgagcaa ccctaacaga gattgtgaag attttcaaag tggggcacct cgatttctcg 300
aatctgtggt gtggcgaaata tccgtgttcc tctgtcttaa ctagectgtt tgaaggcaca 360

```

gttcattctc gag

373

<210> 566

<211> 133

<212> DNA

<213> Homo sapiens

<400> 566

gaattcgcgg ccgcgtcgac gcctcactca attcatgctt ttctctccag cagtgatgaa 60
 ctgctgggct ctgactaaac acctgatgtt atttcaagct gttgacctt gtcatttct 120
 caacctctc gag 133

<210> 567

<211> 281

<212> DNA

<213> Homo sapiens

<400> 567

gaattcggcc aaagaggcct acctttcccc actgcaaaac caggctcggc ttccctcgtg 60
 ctcatctacc tatagtgtat ctgagggtata ttttgcacgt gttttcttac atggtaata 120
 acatgctcgc cctcaccatt ttctcattt tattttccct tgccttaaat ttattttgcc 180
 ttgacctttg cacttgctcg aaagggatga ggataccaaa gggggaaaat tcacctgttt 240
 tagggggaaa ttctctctatt ttatgaatg gtgcactcga g 281

<210> 568

<211> 624

<212> DNA

<213> Homo sapiens

<400> 568

gaattcggcc aaagaggcct acctcccgcc tgctgcgggt gccctggatc cagtcggctg 60
 caccaggcga gcgagaccct tccctggtgg aggcctcagag ttccggcagg gtgcacccg 120
 cctgtgtgtg gcgcgaggca gggaagccgg taccggggtc ctggccccag cgctgacgtt 180
 ttctctcccc ttctctctct ctctgcgggt gcggcgtcgc agacgctagt gtgagcccc 240
 atggcagata cgacccccga cgcccccaa ggggcgggcg ctgtgcaatt catgatgacc 300
 aataaactgg acacggcaat gtggctttct cgcttggtca cagtttactg ctctgctctg 360
 ttgtttctgc ctcttcttgg gttgcatgaa gcagcaagct tttaccaacg tgctttgctg 420
 gcaaatgctc ttaccagtgc tctgaggctg catcaaagat taccacactt ccagttaagc 480
 agagcattcc tggcccaggc ttgttttagag gacagctgcc actacctgtt gtattcactc 540
 atctttgtaa attcctatcc agttacaatg agtatcttcc cagtcttggt attctctttg 600
 ctctatgctg ccacagcact cgag 624

<210> 569

<211> 467

<212> DNA

<213> Homo sapiens

<400> 569

gaattcggcg ccgcgtcgac gtgctggggac atgagatgta ttctcttctt tgttctctac 60
 tctatctctg tgggtggaaa aaattactcc cattctatag aagagagacc agaacctccg 120
 agaggacaag caactttctt agggggcaca gctaggaggg taggctgaat aatgatcccc 180
 ctaaaaatgtc cacattctaa tccccaaaac ttatttaaaa agggactttg caggggtgac 240
 tgagttaagg atcctcagat gaggaggctt tcatggattg tttgggtggg cccaatgtaa 300
 tccaaggatc ctttcaagag caaggcagga gggccagagt cagagaaaac gacacgacaa 360
 tggaagcaga ggttgggggtg atactggagt gggagggggc accagccaag gaatgcaggc 420
 agcctctagg agctggaaaa ggcaagaaag catgtttctt cctcgag 467

<210> 570

<211> 269

<212> DNA

<213> Homo sapiens

<400> 570

```
gaattcgcgg ccgcgtcgac gctgggggaa aaaagaaact aaatcaaata aaaataaatt 60
ttcaaatttc atcaacaagt ggtacattca gtataaaact acaaatgccc atatagatta 120
ttacaaaggt acataccaat caagaactag gcatcacatc caggaactgt gcatacatac 180
taaatcattc attacagatt tttactttat tgtgaagtat attcaataaa atataagtga 240
cagaaatgag aaaatccaca gtcctcgag 269
```

<210> 571

<211> 208

<212> DNA

<213> Homo sapiens

<400> 571

```
gaattcgcgg ccgcgtcgac ataaaaagta tagtaaatac ataaaccaat aacatagtca 60
cttattatca ttatcacata ttatgtactg tgcactgttg tacgtgctgt acttttatac 120
agctggcagc acgggtttgt ttgcaccagc atccccacaa acatatgagg aacatgtaca 180
tcttaccacg gttgcaactt cactcgag 208
```

<210> 572

<211> 178

<212> DNA

<213> Homo sapiens

<400> 572

```
gaattcgcgg ccgcgtcgac tccctactga agatagcttt gcttgaatga gcttgcctgc 60
agtgcgaatg ctgggggctta ttgtgttgac ggcgcagtcg ccatgggtgc tgcgtcctga 120
ggacatgggtt acttccctga ctatctgtca tgcctcactg gtacccegtg gcctcgag 178
```

<210> 573

<211> 172

<212> DNA

<213> Homo sapiens

<400> 573

```
gaattcgcgg ccgcgtcgac tgccagagag tttatagtag ttgaatatgg attatgaaca 60
gttactttta tttttaattt tttgggggac ggaatcttgc tctgtcacc caggctggagt 120
gcagtgggtg gatctcagct cactgcagcc tctgcctcct ggggttctctg ag 172
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<210> 574

<211> 183

<212> DNA

<213> Homo sapiens

<400> 574

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gaattcgcgg ccgcgtcgac tgcttttggg ggacagagtg aatttctccc aaattactgt 60
cttctgcctc ctaaatcagg accacatttt tcaggtgtgc ttatttgggg aacgaggcct 120
ggctctgtgt ccgctgtatt gctgatgaag ctaaaaatta agggattaat ggcacccctc 180
gag 183
```

<210> 575

<211> 224

<212> DNA

<213> Homo sapiens

<400> 575

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gaattcgcgg ccgcgtcgac cctttttcag tattgtttca ggaaatggta ttgtttgttt 60
ttattttact ttttactgtt tcttgggtac atgaccaatg tcatttgact ggtgagtaca 120
ttgagctagc agcttttagag aaatttcatg gtgatctaga gatgcagac agctccctgc 180
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actggcagcc tactttacaa ctaccatctg agaagggact cgag 224

<210> 576

<211> 249

<212> DNA

<213> Homo sapiens

<400> 576

gaattcgcg cgcgctcgac cagaaaacca atgtttaaca ttcacagagg attttactgc 60
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 cacttcactg aggatcctgg ggctttccca gtagccacta atggggaacg atttccttgg 180
 caggagctaa ggctccccag tgtgggcatt cctctccatt atgacctctt tgtccacccc 240
 aatctcgag 249

<210> 577

<211> 251

<212> DNA

<213> Homo sapiens

<400> 577

gaattcgcg cgcgctcgac catcctttgg gacttcagtt cctgcttttc tttgtgaatt 60
 tttccctatt cgtatcctgt ccatattcct aagcaataca taccgtaggt ttgectgtat 120
 ttaaaagtgg catcatgtcc ttacagttat tccagtttgc ttttttgta ctcagcatta 180
 tatcttggga tacatccatg ttgatgcagg cagctgaggc tcatttactt tttcccact 240
 gcaaaactcga g 251

<210> 578

<211> 161

<212> DNA

<213> Homo sapiens

<400> 578

gaattcgcg cgcgctcgac agaggttgtt cgcgccttga gagttaagcg aagtgtggtg 60
 gcttccaagg aatacaaaaca taaaggcctt cgaccgttgc aaatagacta aagtgaaaac 120
 aaatctgaat gaagatgaag ttatttcaga cggttctcga g 161

<210> 579

<211> 173

<212> DNA

<213> Homo sapiens

<400> 579

gaattcgcg cgcgctcgac gcacgcactt catctggggc tgcagtgaaa aagtattcta 60
 gttggagtgc tgcaaaccca gccttaatga tctttggcaa agcactttgt gtcagtgttcg 120
 cttccagata cttctgtctc tcttcagcac tcaattcttg caactgcttc gag 173

<210> 580

<211> 160

<212> DNA

<213> Homo sapiens

<400> 580

gaattcgcg cgcgctcgac agatgccat gaattcttaa attacctact aaatacaatt 60
 gctgatattt tacaagaaga gagaaagcag gaaaaacaaa atggtcgttt acctaatggt 120
 aatattgata atgaaaataa taacagcaca cccactcgag 160

<210> 581

<211> 262

<212> DNA

<213> Homo sapiens

<400> 581
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 ctctttcatt gcttggtgaa aaacctttat ccagggaaga attaataact tcaacaatac 120
 tatcaaagga gggcctaaaa ttaaaaaaaaa aaaagaaaca aaaaagttgt gaaacaacaa 180
 caacaacaat acttggtcaaa ctctgacag acttagggag aatattatga tattgaggct 240
 gctgttgact aaggcactcg ag 262

<210> 582
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 582
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 aggtatttat ctcaaaattc atttggtgtg ttcaaacaga atttcacaaa attctggtct 120
 ttaacaataa ataattgtga ttctaaacat cagaattgta acaggaatac tcgag 175

<210> 583
 <211> 179
 <212> DNA
 <213> Homo sapiens

<400> 583
 gaattcgcg cgcgctcgac gagatatctg tatttaaaaa aaagggtttt ttctcttaa 60
 tgtgcaaac agcacagggc agtttagggc tcttcatagc tatcttcattg tacacattta 120
 ttgggtctac gagcactctt ctctctcagc ttttcccatc ccttatcgcc acctcgag 179

<210> 584
 <211> 242
 <212> DNA
 <213> Homo sapiens

<400> 584
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 gcttatcaag actaacaata agcacatcca cagccggagc actttggaat gtgcctacag 120
 gacgcacctg gttgctggtg ttggcttcta ccagcatctc ctctctctata tccagtccca 180
 ctaccagctg gaactgcagt gctgcacga ctggacccat gtcactgacc cccatgctcg 240
 ag 242

<210> 585
 <211> 240
 <212> DNA
 <213> Homo sapiens

<400> 585
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 tcacctacat tgtcttcatt catatttatt agaattgacca acatacttta ccattccttc 120
 aatcaacttta atttcattat gtttggttaa tttttcttct tgataaacca gttgtccctc 180
 agtatactcc agggattcat tccaggagca cctgtgtata ccataattca cacactcgag 240

<210> 586
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 586
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 gtgttggtcaa atcaaagagg catgctttta cagaaacttg ctttgagat tcttcacct 120
 gtgctggtca tgatactttc agtcccatc caaggagggg taaaatacac tctcgag 177

<210> 587
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 587
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 ttcttatttt tcatggcaac ctacaaattg acttcctttg ttctcatcac cgtctttgtt 120
 gttagaatat gttcagagag tctcgag 147

<210> 588
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 588
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 aatttcttgt tgaagtacag ttggaacagg ttatctccac atttgggtct ttaccctctt 120
 agcatagtgt gatttctttt ctctttttta aaaatccacc tccttctctt ctagcatagt 180
 gtgattttct taaatctttt ttatcttatg ctaaatgtat gggttttttg tttgtttgtt 240
 tggctcact ctgtcaccca ggctgaagtg ttcagtggcc gtctcgag 288

<210> 589
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 589
 gaattcgagg cgcgctcgac ctccatgac tggctttacc tctcaggact cccccatcc 60
 ttaccattgt ttgttgatct ctgggtgcagc caaatgaagc ccatcatgct tgtcctctgc 120
 ctggaagctc ttcccttccct ctctctggcc aatggctact gtcccttcag agcacctgtt 180
 cagatgaaac ctccaccaag caccctcgag 210

<210> 590
 <211> 229
 <212> DNA
 <213> Homo sapiens

<400> 590
 gaattcgagg cgcgctcgac cgggtagta ttccatcata tatatataat cagatatata 60
 tacataatca gatatatata tatataatca gatatatata tctcagtttc tttatccact 120
 catttgcaat tatttaattt ttaaataaaa cactttataa acacataaaa ttatgagatc 180
 tctagttata tttctcatgc taagccactg tgettacccc tgctcgag 229

<210> 591
 <211> 152
 <212> DNA
 <213> Homo sapiens

<400> 591
 gaattcgagg cgcgctcgac ctccattctt tcatgtgtag gtttaatat gtggacccaa 60
 tctgtgttct ggtaatggaa ttaatttga taacatcatt agggctgggc acagttgtct 120
 atgcctataa tcccagcact gaaaagctcg ag 152

<210> 592
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 592

gaattcgcgg ccgcgtcgac caaagattcc tacccaatcg tgtacacact gtctctaate 60
 tcctctcttt gcttggcctg gacctgtgaa tatgataatc acgcccttga ctgctttact 120
 tagtatagga ctccatttta gcagaatgaa gagtgtttcc cctactgac tcgag 175

<210> 593

<211> 235

<212> DNA

<213> Homo sapiens

<400> 593

gaattcgcgg ccgcgtcgac tctgtattct aatgaatagt aatagctgac attraatgaga 60
 actgtatttc agacaccgtg ctaagttctt ttcattgtatt atctcattta atctttgtaa 120
 caaattgatg aggtgggtca tatttttatt tattttattta tgtttgagac agggctcttg 180
 tctgtctgct aggtctggagt gcaatggagc tatcactcct cactgcagcc tcgag 235

<210> 594

<211> 244

<212> DNA

<213> Homo sapiens

<400> 594

gaattcgcgg ccgcgtcgac aaatctatca gtgcagtata tatacaacct tgtcagacga 60
 gtagctgaca aaggaatctc cctagtacaa cttgtagcag tactattata aagaattcct 120
 gacttgacac attttgatga agttgggtga aataatttgt tgggtttggt caatttttgg 180
 tgtcatttat ataaaaagaa taaagaagaa tgtgaatggt aggaagtcag gcgagatgct 240
 cgag 244

<210> 595

<211> 229

<212> DNA

<213> Homo sapiens

<400> 595

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 ccacctcttc ccttgccaaa caatagccga cctctcacc cttggcactgt tgtttatggc 120
 ccacctcctg ctgggggccc catggtgtat gggcctccac cccccaactt ctccatcccc 180
 ttcaccccta tgggtgtgct gcattgcaac gtcccagaac accctcgag 229

<210> 596

<211> 218

<212> DNA

<213> Homo sapiens

<400> 596

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 ggatcatggt gggttgccag cagggaattt gtcttggttg agcctgctct gtgctcccca 120
 ctccatttct ctgtccctct gcctgggcta tgggaagtgg ggatgcagat ggccaagctc 180
 ccacctggg tattcaaaaa cggcacacac aactcgag 218

<210> 597

<211> 153

<212> DNA

<213> Homo sapiens

<400> 597

gaattcgcgg ccgcgtcgac ttctagacct gcctcgagca aataaaaaac ccagttctaa 60
 atcataaaaa tagaagaccc agttctagtc atgtggcatt catttatctt ttggggaatg 120
 tccctcttat gcctttgtag aacacaactc gag 153

<210> 598

<211> 194

<212> DNA

<213> Homo sapiens

<400> 598

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gaattcgcgg ccgcgtcgac atttttccct gtttttggta aggtaatgaa gaaggaaaaa 60
aaaaaatctca tccaaagatg caaagaaaca atctgctggc ccaggtcatt tccatggtat 120
ctttttgttt ctcttttctt tgttttgtaa gtacatgcat tttggctgaa aaagatacag 180
gcaccattct cgag                                     194

```

<210> 599

<211> 232

<212> DNA

<213> Homo sapiens

<400> 599

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gaattcgcgg ccgcgtcgac cagaaaccca taaagatttc ttttaaggatt tggatccgat 60
atctttctga attaggccct aaattattat gaatgtgaac ctagggtata tgtcttgct 120
gtgggatgtg tgctgcgata ctttgaagca gaatgatttg tggatcattt taccagtcct 180
ttctcttttt tggtc aaatg cagatggcat ggaggaaatg gaaagactcg ag 232

```

<210> 600

<211> 227

<212> DNA

<213> Homo sapiens

<400> 600

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gaattcgcgg ccgcgtcgac cacaggtttt gaggaacag agagctaaaa gttggagtgt 60
ttattctatc cacttttttag actttgcaag agtgtgcac cacaatcaca tatatatgga 120
tggaatcact gaatcttttt catctcttat tcagaataca tctgcttctt gctttcaca 180
tgtgcaattt tgctcttttc tgtgtgagag ctatgggaga actcgag 227

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<210> 601

<211> 198

<212> DNA

<213> Homo sapiens

<400> 601

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gaattcgcgg ccgcgtcgac tgaagaacgc cgaagaaggg aagaacaagt catacaggtt 60
taaattcttgt ttcaacttgt tgctagttat ctagatttgt tgcccaaagt gtatcagcaa 120
atgttcaagg tttttatact tgtcaaggct gttttcatta ttcacgtgtt aaaagtgaca 180
tcattcttccc aactcgag                                     198

```

<210> 602

<211> 233

<212> DNA

<213> Homo sapiens

<400> 602

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gaattcgcgg ccgcgtcgac cagaatcaaa tataaggcta aaattatttag tgcatacagt 60
gaaattgagc aaccgcgtgt gttagaaatt aaaagggtgag ttctgttatt caccaactgt 120
taatttagcc caaaaagtgc cgagaaggag ttgggagtggt actccaatct gttatgaaag 180
tgagacaaac attcttgttc cttctgatcc ctttcagtag cagttctctc gag 233

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<210> 603

<211> 119

<212> DNA

<213> Homo sapiens

<400> 603

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gaattcgcgg ccgcgtcgac gattaattct agacctgcct cgagcgtat cttttcactt 60

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tggggcacag ttttacacgt gataacaata gtatgctgat ttccaaggtt ctccctata 119

<210> 604
 <211> 188
 <212> DNA
 <213> Homo sapiens

<400> 604
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 taattttaat ttttattttc ttccagctt tattgaagta taattgacaa ctgaaagact 120
 agttggtaat tgaaattagg actcattttt atagtcagac aatgttaata tttaggagga 180
 gtctcgag 188

<210> 605
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 605
 gaattcgcgg ccgcgtcgac ccagtatgtc tttctatttg tttcactat gtctactttc 60
 gtccagatt acagagttag actattcccc tttttcttca tgcgttttgc agattaccaa 120
 agttccagag aacctgctac cctttgcagt gcagtgcaga aacctcactg tgtccaatac 180
 ccgaacactc gag 193

<210> 606
 <211> 173
 <212> DNA
 <213> Homo sapiens

<400> 606
 gaattcgcgg ccgcgtcgac ctggagtgcc tgggtgtgtc ctccggaatg ctggtgccgg 60
 aactcgtat cctcgttgtc tacctgctgg gggcactgac catgctgagt gaaacgcagc 120
 acaagctgct ggcggaggcg ctggagtgcg agaccctgtt ggggccgctc gag 173

<210> 607
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 607
 gaattcgcgg ccgcgtcgac cttttcacct tctaggagat cgactcacct tctttttcct 60
 acctttctat tgcattttta ttttgttgac taaaatttta ctttctaaga gctcatcttg 120
 tttctgatg gtttttcttc ctctctctca atccaacca tccctctctc ttccctggca 180
 tcaactgctt tccccctttc cctttttctc ctctctctct ctctctctc cctctctct 240
 ctctctctc ctctctgtgc tctctctct cctctctctt ccacctgcat cctgttcccc 300
 agcctcgag 310

<210> 608
 <211> 189
 <212> DNA
 <213> Homo sapiens

<400> 608
 gaattcgcgg ccgcgtcgac agaggcaata cagtaaaaat tacacggtag aaactgagtt 60
 accagtgcac accaaaactt gggtagggag aatataccta aagttgtcct tagaaggaaa 120
 attgtagttc tgtatatcaa catattaaag atgaaaaata aatttaaaac aatagcacia 180
 agcctcgag 189

<210> 609
 <211> 188

<212> DNA

<213> Homo sapiens

<400> 609

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gaattcgcgg cgcgctcgac gagttaagtg gcagaaccgg gattcaaact caagttctcc 60
ctaacatcct ggaagccaag ggaaaggagt aatgaaatat gaaagtgaga aacactgttg 120
gctgggcatg gtggctcctg cctataatct cagaactttg ggaggctgag gcaggcagat 180
cactcgag                                     188

```

<210> 610

<211> 202

<212> DNA

<213> Homo sapiens

<400> 610

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gaattcgcgg cgcgctcgac cttctcttgta ttctctttat ctctctcagc tattttctgt 60
ataatatcct cagatctatc ttctagttta taaattttct tcaaccatga ctaattttat 120
gtttatactg tccaagatgt ttttaatttc agtgacaata tttttcattt tgaaagtctt 180
gttttttggc cagactctcg ag                                     202

```

<210> 611

<211> 166

<212> DNA

<213> Homo sapiens

<400> 611

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gaattcgcgg cgcgctcgac gattgatttt tcatatgttg aatcatcctt tcgttttggg 60
tttattctgt taggtcatgt tgtgtaattc ctttttatat gttactggat ttagtttctt 120
agcgtttttt gaggattttt gcactcttaa ttgtaaggga ctcgag                                     166

```

<210> 612

<211> 152

<212> DNA

<213> Homo sapiens

<400> 612

```

gaattcgcgg cgcgctcgac gaagatacta aaactacttt ttctcccaca ggataattgt 60
agacgtacat tcaaaataga agtaaattaa tggtaatat agttcttcta tttttaatta 120
atagattaaa cctttggacc acggcactcg ag                                     152

```

<210> 613

<211> 194

<212> DNA

<213> Homo sapiens

<400> 613

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gaattcgcgg cgcgctcgac tagtagtggt gcattgtggt ttttaatttc atttcttga 60
tgaccattga agttgagcac attttcatat ttatagatca ctccagtato ctgttttggt 120
tagtgctcgc taaaatcttt tctccatttc tetattgggt tgtctttttt tctgttttaa 180
gcaacacact cgag                                     194

```

<210> 614

<211> 258

<212> DNA

<213> Homo sapiens

<400> 614

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gaattcgcgg cgcgctcgac cttttagtaa aagtaaatat ttctgctct tttctgctt 60
tttatttttc tgcctcagtc tgtgttatct attttctatt ttcttttaac ttgctttgga 120
tttaatttgc tgtttttctaa tttctcaagg tagaagccca gatttttgat ttgagacctt 180

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tcttttccctt ttttgaatat aagcatttga taatctgtgt ttctctttat gtactgcttt 240
tgctgtgtcc tgctcgag 258

<210> 615
<211> 188
<212> DNA
<213> Homo sapiens

<400> 615
gaattcgcg cgcgctcgac ccttcttga acaagatgat cgtgagtcag ctgtccata 60
acgcggtgc tctgacctgg ctgtcttgcg ggagcctgtg cctgctggg tgcatagcgg 120
gctgctgctt catcccttc tgctgggatg ccctgcagga cgtggacct tactgtcca 180
tactcgag 188

<210> 616
<211> 149
<212> DNA
<213> Homo sapiens

<400> 616
gaattcgcg cgcgctcgac gtccattcat tgattcattg aatgattcat ttactcaata 60
agcatatatt tgggtccatc ttggcccagg cactatgctg ggcattagag aaatttgaca 120
gtgggttagg gcaaggccct gccctcgag 149

<210> 617
<211> 193
<212> DNA
<213> Homo sapiens

<400> 617
gaattcgcg cgcgctcgac aggatttaac ctatagagtt ctgattcttt ctcccttca 60
atttttatca agtatttaatt tgccactgg atgatttatt ttagaattgg cctacttttt 120
tttttttttg gcttcagtgc ctgtgggcaa atgtaaattt gcagctgaat tagcaaacca 180
gggacgactc gag 193

<210> 618
<211> 233
<212> DNA
<213> Homo sapiens

<400> 618
gaattcgcg cgcgctcgac atctgtaagt ctctctttac ctcttctct ctctctttct 60
gcctccctcc tttctctctt agtttcccca gagtgttgcc gagctaagg tcaatcagag 120
gactcttaga taccttaatt ttttttggtt ttatttttga agaaaggat catcgttccc 180
attaggacat gtatttaca tgtgttttct tttgcttgc caccacactc gag 233

<210> 619
<211> 211
<212> DNA
<213> Homo sapiens

<400> 619
gaattcgcg cgcgctcgac caaagttgtg tttcaaacat catataatgc tctgcttga 60
aggagtctta ataaatactt tcttccctca ctttacatca ccagtgatgt ttttaaagtc 120
ctttatagat tgggtgcttg ggtattgcct agctgacct tccctaact tcccgcggc 180
gccccaccg ccaccaaca caacactcga g 211

<210> 620
<211> 187
<212> DNA

<213> Homo sapiens

<400> 620

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gaattcgcg cgcgctcgac ttttgttgc gttagtatcg tcgcaacagc aaagagttta 60
ataacattta ttttctagtg tattgcagta atcattcttc ttttttttaa atttctaagc 120
tgttttatta aatgaaaaga gaacaatgct aagcagcttg tatggtgtgt gtgttgtgtg 180
gctcgag 187
```

<210> 621

<211> 170

<212> DNA

<213> Homo sapiens

<400> 621

```
gaattcgcg cgcgctcgac gttgattatc aaattgtttt tgagttagtt ttggtagttt 60
gtgtctttta aggaattggt ccattttttt ttttaattgt caaatttggg ggcataaagt 120
tatttatgct gttaccttac tatcttttta atatcgtta tggctcgcag 170
```

<210> 622

<211> 247

<212> DNA

<213> Homo sapiens

<400> 622

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gaattcgcg cgcgctcgac gttttaaaaa attctgttta atatctgctt agttggctgg 60
ctgcctttgt gttttcccta ctagattgta agctcctaga ggacaaatta cagagcttat 120
ttattggtgg ttttaattta atacattttt ttctctacag attagtgcaa accagtctgc 180
acagatgcga gttatatctg taaaacttgc tggatatttg gtttacatac actatcatac 240
tctcgag 247
```

<210> 623

<211> 244

<212> DNA

<213> Homo sapiens

<400> 623

```
gaattcgcg cgcgctcgac gattagcaga ataacatcgg atcaaaactg tctagcctgc 60
agttccctt aattttgtat tataaaaaga aaactaaaca gagaaaactt taaaagacaa 120
tataatgata ccacgtagat tccagtactt gttaacagtt tgccatattt gcttcgtctg 180
tgtgtctttt cggaaccatt tgaaaattgt agatatgaca tttcacccca acaccagct 240
cgag 244
```

<210> 624

<211> 135

<212> DNA

<213> Homo sapiens

<400> 624

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gaattcgcg cgcgctcgac cgcattttac caaccatatt cctttttaac tctacaaatg 60
gtgcagataa tccgaacact tatagttcat ttattgtttc caccctccca ctctgcacat 120
gactgttata tcgag 135
```

<210> 625

<211> 140

<212> DNA

<213> Homo sapiens

<400> 625

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gaattcgcg cgcgctcgac ataaaaacag cattgtagta cattaactaca gctttgtggt 60
atattttgaa gtctggtagt gtgatgcctc cagctttgtt ctttttgcctt aggatcgctt 120
```

gtctcttcag ggctctcgag

140

<210> 626

<211> 249

<212> DNA

<213> Homo sapiens

<400> 626

gaattcgcg cgcgctcgac cctttattca gacctcact gctttgtacc tggactactg 60
 taacacctcc ctgtctgatt gaattctagt catctgttac actgaggaga gattaaattt 120
 gctaaacaca gtaattttgt accactcttt agcccaaat tacgtagtgc tcatagctgc 180
 taaaataaga aaaaactctt tagcttttcc aggtcttcca taataatgcc caaacatacc 240
 catctcgag 249

<210> 627

<211> 197

<212> DNA

<213> Homo sapiens

<400> 627

gaattcgcg cgcgctcgac ttctaaacat ttgtctgtga agtgttttaa tattctagt 60
 tcacaacatt gatcaagttg gaattcttta ttatcttgaa sagtttatc aaagatatat 120
 tttctgtatt ttcatctgtc agctttctct tgttttttt tgtgagactg aatctcttta 180
 aaaaggccga gctcgag 197

<210> 628

<211> 178

<212> DNA

<213> Homo sapiens

<400> 628

gaattcgcg cgcgctcgac gaagaatact gtgtattatc aaaatggtaa cattgtgttt 60
 cctctgaaa ctgtttctct ttcatcagc attactgttg acatctatcc ttactgatac 120
 ttccaagtct gttctctctt cttatgggat tctactaatt aatccaccac atctcgag 178

<210> 629

<211> 273

<212> DNA

<213> Homo sapiens

<400> 629

gaattcgcg cgcgctcgac aacactcctt atgacaagct gccacaaggc aagggcatca 60
 gatctcttta gtcaaggcaa gttctctcagc ctgtatactg attatgtttt gggctggata 120
 attatttgtt gttggggctg tctgtgtgat tgcagcgtcc tgggectttg cccactagat 180
 gccaatagca tccctttccc caatgtggca accagaaatt accaaatgtt acctgagagc 240
 aaatctctct ttactctctc catccctctc gag 273

<210> 630

<211> 216

<212> DNA

<213> Homo sapiens

<400> 630

gaattcgcg cgcgctcgac gtattatcaa atcattttgt gaaatcacct cattttaaga 60
 tttttaaatc taatgagtgat gaggtaaaata cataactaatg ttgtctgtgaa tttagtatgt 120
 cttttctctt tctttaagtt tgtgccattg gattattctg ttctataga aatccccact 180
 ataaaatgta aaccagacaa acttccattt ctcgag 216

<210> 631

<211> 168

<212> DNA

<213> Homo sapiens

<400> 631

```

gaattcgcgg ccgcgtcgac gttctataaa gataaatccc ttctcctgcc attttatattt 60
attatatttg cataggggtt ttttaartca atgttttata atccattgca gttctttttg 120
atgtcccat tgtcacagat ttggctggta gtagtctccc cactcgag 168

```

<210> 632

<211> 193

<212> DNA

<213> Homo sapiens

<400> 632

```

gaattcgcgg ccgcgtcgac cagtttgatt tttagctcaa attgttggtt aaaataaatt 60
atgaatttga acgtattcag ctatgggttt cttttttatc tgctctaaaa gtgccttagc 120
tacaatagtt ttttctctgt tactcttcac tgtaattttt ttttatgaag gaaaatcgct 180
ggagggactc gag 193

```

<210> 633

<211> 211

<212> DNA

<213> Homo sapiens

<400> 633

```

gaattcgcgg ccgcgtcgac gaaatataaa aactatgatg ctgcttcttt cttttttttt 60
cttgagacac agtctcactc ttttgccgag gctgtactgc agtgggtggga tctgcaactc 120
ctgcaacctc tgctccccga gttcaagtga ttctcctccc tcagcctccc tagtagctgg 180
aattacaggc atgtgccacc acgacctcga g 211

```

<210> 634

<211> 253

<212> DNA

<213> Homo sapiens

<400> 634

```

gaattcgcgg ccgcgtcgac atcatttctt ctcatgctt agtactgcta ccttagtttt 60
gttctctatg atttcttgcc tgtgttatta taatagatcc ctaagtgggc tctttgtcta 120
cattctcacc cctccattt tatccattg tgctttccag aaggaaactt ctaattgtag 180
atctgattgt gctctcttgg gggcacacat cgtatcactg ccaggacagg accaagtacc 240
aagcaacctc gag 253

```

<210> 635

<211> 312

<212> DNA

<213> Homo sapiens

<400> 635

```

gaattcgcgg ccgcgtcgac cctgggtctgt cccaacatga aggcaataat ttgttacctc 60
attaatagat ctgtcctttt tcttttcaaa cagttcctta tgttacccat gaaatctagc 120
tggggctgtg tggtttctga tccccctgg cttattcttt acttttccca cttttccagg 180
ctcagcaggg agctgctgga tgagaaagag cctgaagtct tgcaggactc actggataga 240
ttttattcaa ctcttttga gtacctggaa ctgcctgact tatgccagcc ctacagaagt 300
gacgaactcg ag 312

```

<210> 636

<211> 168

<212> DNA

<213> Homo sapiens

<400> 636
gaattcgcg cgcgctcgac agccagagca atagtaatgt ttatagacca tctttctcat 60
aaatgccact gctcactatt gtacatatgt ctttttcaag tatttttgga agacctccct 120
cctctgctac catatttccc taatgtctgt gaaactaagt acctcgag 168

<210> 637
<211> 262
<212> DNA
<213> Homo sapiens

<400> 637
gaattcgcg cgcgctcgac gcattgaatc cagggttttt gtttcacttt gttttttcaa 60
agaatacttc ttaagtgtgt gtattttttt gttgtattac atcatgtggc aaatgatctc 120
tgtctgtgat gttatgattg atcaggtttc aggtgttata agtttgatta ttccttgta 180
ccttgtcagc ttttaccagc tgatttcagt ggcggttaat ggtcatggcc tagattcact 240
atctcaggaa ggcacgctcg ag 262

<210> 638
<211> 254
<212> DNA
<213> Homo sapiens

<400> 638
gaattcgcg cgcgctcgac cttttcacga ttcattgctg aaggctttat tctatgaaga 60
cctttgttgc tgaagggtatg aaggatgttg tagtaatgga aagtatttta ctgatctttt 120
atctcctttt aaattttttg agacagagtc tcgtctgttc atccacgttg gagtgtggta 180
gcgtgatctc agctcactgc aacctctgac tctggggttt aagcacttct cctgcctcag 240
cctcccaact cgag 254

<210> 639
<211> 169
<212> DNA
<213> Homo sapiens

<400> 639
gaattcgcg cgcgctcgac tattttacaa attactcata accagaagag ttctgttgga 60
ttttaccata tggccagatt catcttgctt ttcaaaacta tgtaagtaat ttttccaaat 120
ctcttttttt ccataacat acatgtgtgt gagtccactc ctctctgag 169

<210> 640
<211> 159
<212> DNA
<213> Homo sapiens

<400> 640
gaattcgcg cgcgctcgac cctaaaccgt caattgaatt ctagcaagga atttgtgggc 60
aaacctacta ttttagacac tattaataag actgaattgg cctgtaataa cacagttatt 120
ggttcccaaa tgcagttaca gctgggaaga gtcctcgag 159

<210> 641
<211> 230
<212> DNA
<213> Homo sapiens

<400> 641
gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt ctaggcgtga gccaccacac 60
ccagcctgct atagcttttt ctttgcgag atttgttttt ccatttgctt tactagatta 120
cttgaagcgc ttttataatg actgctgcag ctcccttggt gaagaattcc agcgtctgtg 180
tcctcttggt gttggcatct acctattatc ttttctcttt caaactcgag 230

<210> 642
 <211> 253
 <212> DNA
 <213> Homo sapiens

<400> 642
 gaattcgcgg ccgcgtcgac gcttttaaga actttcaa attttctcca gctgtatatt 60
 gggtgtcttc agggaagagt ttgttctgaa tttgcctcgt ctgttttcca gaagtgaata 120
 tttgaaccga ctgacctttt agtttttagt actgtatttt taaatatttt atttgcttcc 180
 ttttagaagc tacatgctca atttttgtag ttctctatac ctcataaata tttttgagct 240
 cagccagctc gag 253

<210> 643
 <211> 245
 <212> DNA
 <213> Homo sapiens

<400> 643
 gaattcgcgg ccgcgtcgac cccgcacac ctccaagtca cccagggtcca cctgcattgc 60
 agcagactgc cccagccaca cccacgctct ctccctcttc tgtacgcatg acgctccttt 120
 ctgcctctga gcatttgcatt gtgctgttcc ctctacttgg aatactcttc cctctttttt 180
 tttttatttt tgagacagag tctcactctg ttgcccaggc gattctcttc tctcagcttc 240
 tcgag 245

<210> 644
 <211> 197
 <212> DNA
 <213> Homo sapiens

<400> 644
 gaattcgcgg ccgcgtcgac cggatttcaa ggaattttta gactttgtgg attttttctt 60
 cactataatt gtatgttttg ctccctaatt atttaaatta catacataga tattttttgtt 120
 actttgagaa tagtctatct gaaatttgaa gttctttaga gcttaataata ttaaataatgc 180
 taacactcat cctcgag 197

<210> 645
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 645
 gaattcgcgg ccgcgtcgac ggggaattact atctacctct tagtggtata tttggaatga 60
 atgaaataac acatggagag aatttagtac aatacctggc acatcatata catgttttaa 120
 gtagttctta tgcttgtatt gaagttaata atgatgaact tggagattgg cacgggaata 180
 agaaagaggg ttggcagaga tgttgagaag gttgaattga caggcagtg ctgtctggat 240
 gttagggcaa ggctcgag 258

<210> 646
 <211> 174
 <212> DNA
 <213> Homo sapiens

<400> 646
 gaattcgcgg ccgcgtcgac gcaattcttc gctgaagtca tcatgagctt tttccaactc 60
 ctgatgaaaa ggaagggaact cattcccttg gtggtgttca tgactgtggc ggcgggtgga 120
 gccctatctt tgcgtgtgta ttctcttttg aaaaccgatg tgatccttct cgag 174

<210> 647
 <211> 201
 <212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (92)

<400> 647

```
gaattcgcgg ccgcgtcgac gtaaaaagat tctaacagga aggaggagg tgtaataaaa 60
tagaaatggc atctctagaa ataatgttca tntttaagat tgattatagg gaggaaaatg 120
aaacacaatg agcctttcaa aaaataagtc atgagacttt gggcaaaaaa caaacaataa 180
aatatgaggt caactctcga g                                     201
```

<210> 648

<211> 198

<212> DNA

<213> Homo sapiens

<400> 648

```
gaattcgcgg ccgcgtcgat ttttgccatg aatgggaaaa gctttttttc tctttttttc 60
tttttcgtgt ttttttcttt tgtttcaaat tcttctcttg gctcattgct cttaatgctt 120
tgctcccta aaagaggtag ctatgtaaaa acggaagtat ctggccctac gcagtggaaa 180
aagggactaa cactcgag                                     198
```

<210> 649

<211> 216

<212> DNA

<213> Homo sapiens

<400> 649

```
gaattcgcgg ccgcgtcgac gcaatttgaa tataatatgt ctagggtgtag ctttctcttt 60
tttttttagca ttattctcgc ttggtatttt cttagcttct cgaatttggt gttggtatcc 120
gacattgatt tagaggaaat tcacagtcac tattgcttta aatatttctt tctgttccct 180
cttctcttgg ttttctgttt acatgtacac ctcgag                                     216
```

<210> 650

<211> 157

<212> DNA

<213> Homo sapiens

<400> 650

```
gaattcgcgg ccgcgtcgac cctaatacaga aggcatgttt ttagtatttc ttgggagtggt 60
cagctgtata atgcagcagc tgttcaatcc cttacccttc tctgcaagga cttccttaca 120
gcttggtgca gttctttccc agaggccacc actcgag                                     157
```

<210> 651

<211> 158

<212> DNA

<213> Homo sapiens

<400> 651

```
gaattcgcgg ccgcgtcgac aatcatttca gatttccagg aaagttgcaa aaatatcata 60
aagaaatata tacccttcac tcagattccc aaatgttagc acttcgccac atctgctcca 120
ttctcttttc tctctcttca cacacacaca cactcgag                                     158
```

<210> 652

<211> 227

<212> DNA

<213> Homo sapiens

<400> 652

```

gaattcgcg cgcgctcgac agcccatgaa agattccaga acagagtttt gtaggttaaag 60
ttaagtgtat tacctggaaa gtctgttcca tgttgataaa cccaagtcc gaagaaggaa 120
agttgtgtt tcaaggtatt ttctttctct gtctctttct ttctctctgt gatgcacaca 180
aacacacaca tatacacata caatctctga attcactcaa actcgag 227

```

<210> 653

<211> 265

<212> DNA

<213> Homo sapiens

<400> 653

```

gaattcgcg cgcgctcgac ctttcccatc cctagattcc tttgtgctgc ttgtctacat 60
tgatgataa acatcacatt aaatgcaatc tctccctccc caccctctct ttttttttga 120
gataggatct cgcttgctgt gttgcccagg ctgcagcgca gtgggtgtgga tcgtggctca 180
ctgcagcctc accgtctggg ctcaagtgat cctccccag agcctccact tccagttacc 240
cgggactata gacacgtacc tcgag 265

```

<210> 654

<211> 240

<212> DNA

<213> Homo sapiens

<400> 654

```

gaattcgcg cgcgctcgac gtgaggttga gggtccttcc atatattcac gggctgttta 60
tgtttatttc ctgtgagcta gctcttgata tctagttccc tgattcttcc ccaagaaaaa 120
ttccataaat atttttcacag gattgtgtta aattcctaga ttaatttga aagaactgat 180
tttatgttgc atctttttat ccaagaactt gttatgttcc tccatttgtt caacctcgag 240

```

<210> 655

<211> 190

<212> DNA

<213> Homo sapiens

<400> 655

```

gaattcgcg cgcgctcgac gtgagacctt gtctcaaaaa cagaacaaaa agcaaaacaa 60
ctgtattagg ggccagatgt ggtggctcat gcttgtaatc tcagtgtctt gggaggctga 120
gatgggagga ttgcttgaag ccaggagtcc aagaccagcc tggggaacaa ccaaaccctg 180
tctccctata 190

```

<210> 656

<211> 164

<212> DNA

<213> Homo sapiens

<400> 656

```

gaattcgcg cgcgctcgac tgatttttta aatatatgtc ctttattaaa aatatatgaa 60
gtgcaatgaa agacaaaacc tgtgcattcc tcattgtagc acctattttt aaggcttccc 120
tatctgagtc agctcagttt ttgatgtggg cggaaagtct cgag 164

```

<210> 657

<211> 172

<212> DNA

<213> Homo sapiens

<400> 657

```

gaattcgcg cgcgctcgac caacagggaa acaggagtgt catcaaaagt aaattccagc 60
cgagacattc tctctatatat gagaagcaaa agtgaaagga aaaatttttg aaaagtaaaa 120
cactgaagag tcatagtatt ctctgtaac ttggaactgg agtgggtctcg ag 172

```

<210> 658

<211> 165
 <212> DNA
 <213> Homo sapiens

<400> 658
 gaattcgcgg ccgcgtcgac aaataaagta gggatgcat ctgctatatt caaatgtcct 60
 tgcagattgt tttttctaata cttatggta tttctgata ttcttaaat agatagtgt 120
 tgctatgtta acacagagca gatagtattt gcacaatgcc tcgag 165

<210> 659
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 659
 gaattcgcgg ccgcgtcgac cacacacaca tacacacata tatatatata actttataaa 60
 gtatcatgta atatttttta taatttatct ttaattccaa taactagggt acatagattc 120
 taaagttctg aatcctatag gcaagtgggt caattatttt atccatgtcg tctagatacc 180
 tccttatttc taaatattat ttcttaattt tttcaatatt agatgttgtt attgattgtc 240
 tcacagatgc catccctaata gacgtactcg ag 272

<210> 660
 <211> 253
 <212> DNA
 <213> Homo sapiens

<400> 660
 gaattcgcgg ccgcgtcgac taggtttagt tgtcttaaca aaaaccagtc gaggaaaagt 60
 ttttagttaa gcagaataact aaataaaaat attaatccag gctcagatat cttttgtttt 120
 gatccctttg aaagtcagaa ctgggtttgt ttaggagtat tttatgtatt tgatttttat 180
 tcttaactat tcccttatga tggtagctgt tctttcagca aacagttatt ttgtgcctat 240
 tgcgtgcctc gag 253

<210> 661
 <211> 283
 <212> DNA
 <213> Homo sapiens

<400> 661
 gaattcgcgg ccgcgtcgac cgattgattt cgctagtact ttccaaaaat actaaacaat 60
 aagatagtag tggagctttg tcctattcct tacttcaatc agatattttt aatgctttcc 120
 tattaagatt agatctggct ttagattgaa gcgtacatat tttatcatgt taaagtattc 180
 agctgttact gtttttttaa agtttttgtt ttgttttgtt ttgtttttt gttttttttt 240
 gaggcagagt ctcactctgt tgcctaggct ggagcgactc gag 283

<210> 662
 <211> 120
 <212> DNA
 <213> Homo sapiens

<400> 662
 gaattcgcgg ccgcgtcgac ttgaattcta gacctgcctc tcacctggac cactggagga 60
 acctctgat tggtecccat gctttcactc ttgtccacc tattttctca cgcactcgag 120

<210> 663
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 663

```

gaattcgcgg ccgcgtcgac aactgcaatt acttctgtac caacctataa gtttgccttag 60
tgttttttatc atgaaaaggt attagattctt taaaatgttt tttctgtctg ttgagggttat 120
cgtgtttattt tgctttgttg tattatttgg gtgtataatt ttttttgaga cgggggtcttg 180
ctctgtcgcc caggctggag tgcagtggcg cgatctctgc tcactgcaag ctccacatct 240
cgag 244

```

<210> 664
 <211> 193
 <212> DNA
 <213> Homo sapiens

```

<400> 664
gaattcgcgg ccgcgtcgac taaactcctg agctcaagtg atccttctac ctccgggctcc 60
caaagtactg gtattacaga cgtgagccat ggcccccagc ctgtctctgt gttttaacct 120
tcatttagta ttagttctac aaatgattac ttatttaatg ctcaatacta gtctctgtgt 180
cagtatcctc gag 193

```

<210> 665
 <211> 329
 <212> DNA
 <213> Homo sapiens

```

<400> 665
gaattcgcgg ccgcgtcgac cctcctcttc tgtcaccagt gccctcgccc cctccgatgt 60
catcacctca ccgggttcc ttaccgtctt catttgcacc tgaaacctac tttggagaat 120
atacagattc cagcgataat gactcagtc agcttagaaa ttctgtctgag tctgtttcag 180
aagatgatac aactgaatca cagaattatt ttggctcatt gagaaaaaat aaaggaagtg 240
gcacatggga ggaaaagccc aaatcacatg aagctatcca agctctgaat acatgggaag 300
taaataaagt gacaacttct ggactcgag 329

```

<210> 666
 <211> 189
 <212> DNA
 <213> Homo sapiens

```

<400> 666
gaattcgcgg ccgcgtcgac tgcattggatg tgtatgtgtt tgtccccagc caaaatgacc 60
tttctctgtt ccattattct gttatgtgtc cattactgtc ccacctccat gcctttcccc 120
aggggtgttc ttaacctgg aatgtctcatt tccctctctt tatctctgcg tgtaaacccc 180
aaactcgag 189

```

<210> 667
 <211> 218
 <212> DNA
 <213> Homo sapiens

```

<400> 667
gaattcgcgg ccgcgtcgac tatacatcca gaaaagtaca tagttcagtg ctttttctac 60
taagtgaatg catctgtctt taaaaagtga ccacccccat aacagaaaat agaattgtac 120
cagcattcca aagaccctt ctctgttacc tctccctcct tctccaagcc acactccttt 180
ctgacttctg tcaactataga tcaattggcc aactcgag 218

```

<210> 668
 <211> 129
 <212> DNA
 <213> Homo sapiens

```

<400> 668
gaattcgcgg ccgcgtcgac cctcatctgg cgcattttta ttgcaagatc acaaattggca 60
agaaatatct ggtactttgt ggttagtctg tgttacaagt ttttgcata cttccgagca 120

```

acactcgcgag 129

<210> 669
 <211> 251
 <212> DNA
 <213> Homo sapiens

<400> 669
 gaattcgcgg ccgcgtcgac cagtctggtg gtgggtgcgg agtctgcggc cgttcccgcg 60
 gcctcctcct cctcccgggt ccttcacccc ccaccccgca cccctttccc catcccggct 120
 ccgtcaccct ccgcgtccccc acactcagga caagaatgcc ctgcccgga caaccagca 180
 gcgcctagat ggcttttggtc acggtccagc ggtcacctac cccagcacc acctccagcc 240
 cgcaactcga g 251

<210> 670
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 670
 gaattcgcgg ccgcgtcgac ccctatgcca aaatctccct atcattaaaa tacaacaccc 60
 caaccctagc aaaaccattc ctgataccac gtgttgctat tatccactat ctctcctcca 120
 gtcctatcaa aacttgggtt tgctgtttct gatgctatta ttgtctctgc tcgag 175

<210> 671
 <211> 211
 <212> DNA
 <213> Homo sapiens

<400> 671
 gaattcgcgg ccgcgtcgac cttgcctggc aggagtggct tctaagaaga gctgttgatt 60
 gttgaacttt gacgctaagg tgagggtttg gatttttttg ggatagcttt attttggtat 120
 aatttttagaa aagtttgaga atagtacacg agttcctatt tacccttcac cttaggtcac 180
 gatgatttgc gttttgcccc atttactcga g 211

<210> 672
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 672
 gaattcgcgg ccgcgtcgac caccagacca gttctgtgcc tccatctggt ttctgacttg 60
 tgcgatcggt tggcagcccc atcagctgct acctcctctt tgtctctttg ccggtgtggt 120
 tatgctattc aaagtacctc tatttttaat gagttttggg acctatcaaa tataaatata 180
 ccatttcctc aagaccattt ttcttttcta accagtaaat ttatatggca ttattttttt 240
 cttacagaag ctctcttttt ttctctcttt tctttctttt tttggaggct ctcgag 296

<210> 673
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 673
 gaattcgcgg ccgcgtcgac gagatgaatc caggctataa catttaacaa gaccttatta 60
 aaagcttcaa gatgttagcc tttatctggt ccatatctag cttacttggg tgtttttggg 120
 ggatcacatg tctgtcctcc aaactggaaa cgtctaactc tccaggagta ctcgag 176

<210> 674
 <211> 137
 <212> DNA

<213> Homo sapiens

<400> 674

```
gaattcgcgg ccgcgtcgac cccatctatg aagaactgaa agaccgcagc cgtagaagaa 60
tgatgaatgt gtccaagatt tcattttttg ctatgtttct catgtatctg cttgccgccc 120
ccatcctctg cctcgag                                     137
```

<210> 675

<211> 202

<212> DNA

<213> Homo sapiens

<400> 675

```
gaattcgcgg ccgcgtcgac agcattttta gctttgtaca ttcaaagtca tgcatacttc 60
tgagaggtcc tttaatgtga agattttttg cttgcatcac ttctcttgga acatcttcat 120
cttctgtttg ctaatttcta cttttagtta tttatttttt aaattaaatg tcatatgggc 180
ttattattgg gatagcctcg ag                                     202
```

<210> 676

<211> 227

<212> DNA

<213> Homo sapiens

<400> 676

```
gaattcgcgg ccgcgtcgac aaaagaagtt aactagagtg ccatcaaagt cactggactt 60
gaataaaaaat gaatatcttt ctctggacaa aagcagcact tcagattctg ttgatgaaga 120
aaatgttctt gagaaagatc ttcatggaag actttttatc aaccgtatct ttcatatcag 180
tgctgacaga atgtttgaat tgctctttac cagttcacgc tctcgag                                     227
```

<210> 677

<211> 556

<212> DNA

<213> Homo sapiens

<400> 677

```
gaattcgcgg ccgcgtcgac agttggaaag cttgcagcat ctggatcaat tacaatgcaa 60
gaacattgga gctatgtcaa gctacctctt catagtgaat tatgagttgc ctttggtgat 120
ccaggcatta acgaacattg aagataaaac tggattgttg tatctgaacg ggaactatct 180
ggttctgttg gtgtcattgg tggtcattct tcctttgtcg ctgttttagaa atttaggata 240
tttgggatat accagtggcc tttccttgtt gtgtatggtg ttctttctga ttgtgggtcat 300
ttgcaagaaa tttcagggtc cgtgtcctgt ggaagctgct ttgataatta acgaaacaat 360
aaacaccacc ttaacacagc caacagctct tgtacctgct ttgtcacata acgtgactga 420
aatgactct tgcagacctc actattttat tttcaactca cagactgtct atgctgtgcc 480
aattctgac ttttcatttg tctgtcatcc tgctgttctt cccatctatg aagaactgaa 540
aaaccgcagc ctcgag                                     556
```

<210> 678

<211> 196

<212> DNA

<213> Homo sapiens

<400> 678

```
gaattcgcgg ccgcgtcgac atttgtttta ttcagataga gtttacatgc agtaaaatct 60
attctttttt aggtttgcag tttgatgagt ctgacaatgt atagtcatat aaccaacact 120
acagttgaga tatagaatat taccocagaa agttccctgt accttttagt gattctcttc 180
tccccacgt ctcgag                                     196
```

<210> 679

<211> 226

<212> DNA

<213> Homo sapiens

<400> 679

```
gaattcgcgg cgcgctcgac tgcttttagta ataaattgcc taccagtttt gtaaagcttg 60
gtatatctta tttttctttt gactttttgac aaacacagaa gtaataataag tccctcgtat 120
ccaactagca gctcctcagt tatcaattcg tggcccatct catttcacct gctcttattt 180
tttagttttt cattttgtaa tgcttgatc caacacagtg ctcgag 226
```

<210> 680

<211> 113

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (i04)

<400> 680

```
gaattcgcgg cgcgctcgac actaagggtg gagtcactgt gcccggcctg atgatttttt 60
tatcatatct gtgtttctgc agagttttag tggctaaaga aagnacactc gag 113
```

<210> 681

<211> 196

<212> DNA

<213> Homo sapiens

<400> 681

```
gaattcgcgg cgcgctcgac taagaatggt atgttatcaa aataccttta atagtcacct 60
tatagcactc tgctatttgt catccagttt tatgcatcaa acacaatata ccttttggtt 120
attcctaact gctcaatggc aaacacacgt tccagaatat agtcatggga ttacaacat 180
aatgacctgc ctcgag 196
```

<210> 682

<211> 226

<212> DNA

<213> Homo sapiens

<400> 682

```
gaattcgcgg cgcgctcgac tgagaatggt ggtagtggtc agaagagtca aaaaatggca 60
gttaattatt cagttatttg ctacttggtt tttagcgagc ctcatgtttt ttggggaacc 120
aatcgataat cacattgtga gccatatgaa gtcataattct tacagatacc tcataaatag 180
ctatgacttt gtgaatgata cctgtctct taagcacaca ctcgag 226
```

<210> 683

<211> 196

<212> DNA

<213> Homo sapiens

<400> 683

```
gaattcgcgg cgcgctcgac taaaatacag ttgaagattt ggctgcattt ttgccttacg 60
attacatacc ttaataatta caactcaatt gaggggtcca tatatattct ttctcatttt 120
ctggcagtaa atcatattca tcatataact cccaattttg cacacacaaa aatgaaaaat 180
agccccctat ctcgag 196
```

<210> 684

<211> 193

<212> DNA

<213> Homo sapiens

<400> 684

```

gaattcgcgg ccgcgctcgac aactttattc caaaagtagt gcatgtggag aaagaatcta 60
gactttcttg tatacatttt tctcttctcc agtaataaac aattaccttt catttatact 120
ttgataacct gtatttaatt taaaaaaaaa cataaaaatg aggaaccaag tgaaactacg 180
gatattcctc gag 193

```

```

<210> 685
<211> 258
<212> DNA
<213> Homo sapiens

```

```

<400> 685
gaattcgcgg ccgcgctcgac acttctgact ctgtcagtat tccctatccc tgctcctgat 60
ttcttctttt tcatagccgt cgccttaaca cacattctac atttgactta ttttctttt 120
taatcatcta cgctccctcca ctaggctgta aactacagga tgacaaagggt tttgtctgtt 180
tttttcattg ctggctgttc aatatctaatt ctagtgcctg gcatgtcatg gacaattaat 240
aaatgtgaac acctcgag 258

```

```

<210> 686
<211> 197
<212> DNA
<213> Homo sapiens

```

```

<400> 686
gaattcgcgg ccgcgctcgac gtattaatag tattcctaatt gtgtgctgca gaaatggcta 60
tgagcctctt aaatttacat ttgcaactta aaggtagttt tagaagggaag tacaaattgg 120
ctttcatctt gcaaacaatc gtttttcta tcatctatctt aatttgcttt gtcactcata 180
aaaaggaaac actcgag 197

```

```

<210> 687
<211> 304
<212> DNA
<213> Homo sapiens

```

```

<400> 687
gaattcgcgg ccgcgctcgac agaagtaaag atcctgaata acttctcaag gttatagtca 60
cacagctagt aagaagcaaa gtggcattgt taatacctcc caccattaaa aaaaaaaaag 120
gtggttatag caaagtatac actagaataa tttagattgt ttgagatgga tacagggtatc 180
tcttttttta aattagtagg tacaaaacaa gaacttgaaa accacatcct tttagattct 240
ttgttggttc taggagtgtt tttcaaggct gttagtaatt tgtgtttccc tgggccatct 300
cgag 304

```

```

<210> 688
<211> 156
<212> DNA
<213> Homo sapiens

```

```

<400> 688
gaattcgcgg ccgcgctcgac gttaaacctt ggctaatttt attgtctttt tgtagagatg 60
ggatttcacc atcttgccct ggctgttctt gaactcctgg gctcaagctg tccctccgcc 120
tcaagcctcc cgaagtgtgt ggattgcaga ctcgag 156

```

```

<210> 689
<211> 329
<212> DNA
<213> Homo sapiens

```

```

<400> 689
gaattcgcgg ccgcgctcgac atgggacaga gtccaagcat gatgggtgggc atgcccatgc 60
ccaatgggtt tatgggaaat gcacaaactg gtgtgatgcc acttctcag aacgttgttg 120
gcccccaagg aggaatgggt ggacaaatgg gtgcacccca gagtaagttt ggcttgcgcg 180

```



```

aagctcagca gccccagtg agcctctcac agatgaatca gcagatggct ggcattgagta 240
tcagtagtgc aaccctact gcaggttttg gccagccctc cagcacaaca gcaggatggg 300
ctggaagctc atcaggtcac tctctcgag 329

```

<210> 690
 <211> 191
 <212> DNA
 <213> Homo sapiens

```

<400> 690
gaattcgcg cgcgctcgac gttaaacttt acatttttaa ttaatttatg tttgtatgta 60
tttatttgtt gagaaggggt ctctctctgt caccctact agaatgcagt ggcgccatca 120
tggttacttg ctctctgggc tcaagctgtt ctccatttc agcctcccca tgcaccaccc 180
tcatgctcga g 191

```

<210> 691
 <211> 173
 <212> DNA
 <213> Homo sapiens

```

<400> 691
gaattcgcg cgcgctcgac atactgtata atttgggtga ggtctacaaa attgggtgtg 60
actttccttt gcaaatggat ttctctctgg gaattttctt ggctgttctg gaaatgcttt 120
cccacagctg ggtaactgtt ctaaatggct ttgataatgc tcacaccctc gag 173

```

<210> 692
 <211> 349
 <212> DNA
 <213> Homo sapiens

```

<400> 692
gaattcgcg cgcgctcgac gtgatttata atgacatcct gagaaaagtc agtgaaactc 60
atttctaacg aataccagat ttctttaaagt agtcaagtat tttctctttg tgtatgatga 120
gatattaact tgggtgttatt tcattttttt tttttaagga gtcattctac cctgttctat 180
ctttacttat gtgaaaatgt ttaaaactat agtttttttc atgtgccttc ttttggagta 240
atgtcaactt ttaaatcac atgttttaaat aacttagagt gtaataaatt gtgtttaata 300
tatactgtag ataatgatgg ttaaatgctt tgtaacaca tgtctcgag 349

```

<210> 693
 <211> 272
 <212> DNA
 <213> Homo sapiens

```

<400> 693
gaattcgcg cgcgctcgac cctgcctcta agataaaagc tcaacttctt aacagtgtac 60
agtgtgcaac ttccaacett tttatctggt ctctccacct tcagtttagc gtcattccaa 120
aaccacaccc ttgcaaaagt ttgtactcgg caccacagat gatctccagg cagctcagat 180
ctctttcctg cctttgccct gcaactgttc ccggtacttc ctcttttatt gtagcactca 240
gctccccagc caatctgttc atcgtcctcg ag 272

```

<210> 694
 <211> 212
 <212> DNA
 <213> Homo sapiens

```

<400> 694
gaattcgcg cgcgctcgac cagagaacag gcaaaaaatt actgaagact ttaacagcat 60
ctgaaatgct acctttattg gatcattgga atactcaaac taaaaaagta tcaactcagag 120
aaataatgct agaagaaatt gccttacagg aaaaacataa tttgaaaag gagaccctta 180
tgtttgaaaa agattgtgcc actcaactcg ag 212

```

<210> 695
 <211> 226
 <212> DNA
 <213> Homo sapiens

<400> 695
 gaattcgcgg ccgcgctcgac catattttgt ttgtccattc atcaggtaat ggatatttgg 60
 attgttcgagg gtactgttat tgctactcct attttatttt agaaatacga aaagtgaatc 120
 tcagggaagt aagttcacca aggtcagaca aatagcaaag ctgagacgca cacaaactta 180
 agtgtgtctg atgctatat tctttctctt aaccactgcc ctcgag 226

<210> 696
 <211> 194
 <212> DNA
 <213> Homo sapiens

<400> 696
 gaattcgcgg ccgcgctcgac tgaagagatt atattcctct acatcagggt ccaaagatgc 60
 agttctgtgg gcaactggga agttggaaac tgaatatggt gaaaatgatc ccgtcactat 120
 tcctaggagc gtggctgtct cctcagcact cagcagtggt tgggtgtagta gggggcgagg 180
 gtatggaact cgag 194

<210> 697
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 697
 gaattcgcgg ccgcgctcgac tctctaccaa gccctttgtc ttgtgaattc tcttctcttg 60
 ctgattctgc atggctttct atcctattca gtatcaagtt ctgatttttt gtttattttg 120
 ttttcatttc atttctaagt attgtcfaat gatcccgctc tctgtgatat ggtttggtctg 180
 tgccctact ctcgag 196

<210> 698
 <211> 212
 <212> DNA
 <213> Homo sapiens

<400> 698
 gaattcgcgg ccgcgctcgac cttaattcct actacaaagc taaataatat ataaaataaa 60
 tagaaaaaat cagtgtctca agttatcctt taatgtgggg aataaaatgt ctgaaagtca 120
 tttatgaact aattttagaa tgctctacta ctggaaatat ttattctttc aacactacat 180
 ttgttggttt agatgcttgc caacaactcg ag 212

<210> 699
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 699
 gaattcgcgg ccgcgctcgac ctaagtactt tttctttttg aagccattgt aagtgttaatt 60
 attttcgttt cattttcaga ctgttcattt ctagtgtatg caactaattt ttgtgtattg 120
 atgttatctc ccacaacttt gaacttgctt attagctcta acagttattt tgtagattct 180
 tcagggtttt cttctacaca taggattatg ttacctgttt ttgtgttttt tggtttttgt 240
 ttgtgtgtct tggtttttga gacagggtct cactctgtca ccaggaccg gaagctcgag 300

<210> 700
 <211> 124
 <212> DNA
 <213> Homo sapiens

<400> 700
 gaattcgcgg ccgcgctcgac attgaattct agactgcttc atggatacaa tatctgtgca 60
 tctctttgac agtattatgc tttttctttt cttctctttt ttgagggtgga gtctcactct 120
 cgag 124

<210> 701
 <211> 214
 <212> DNA
 <213> Homo sapiens

<400> 701
 gaattcgcgg ccgcgctcgac aggggaataag agtttttaggc atctataaaa ctgtctgaga 60
 ttttaaccttt tctcatataa gcaagggatt tgattacaca aaattttttg acagtggata 120
 gctagactgt acttatcaat ttgttcaacta ctgttctatg gctatctctg gaagaccctt 180
 taggtacaat aaggaagatg ggagagtact cgag 214

<210> 702
 <211> 286
 <212> DNA
 <213> Homo sapiens

<400> 702
 gaattcgcgg ccgcgctcgac ggtagcctct cacaactccg cccttgccct ctgccttcca 60
 cttccttcca tctcatttct aaaccccaaa cagctcatct ctaaaaagat agaactccca 120
 gcaggtggct tctgtgttct tctgacaaat gattcctgct tctccagact ttagcagcct 180
 cctgttccca ttcttggtca cagctctagc cacagcagaa ggaaaggggc ttccagaaga 240
 atatagcacc gcattgggaa acagcagcct ctacccctcc ctcgag 286

<210> 703
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 703
 gaattcgcgg ccgcgctcgac gttataaagg gacacagctg aaagccttac tgatacttga 60
 aggaggccag aaagtgtgtt tcaaacctaa gcggtatagc cgagaccatg tgggtggaagg 120
 ggaaccgtat gctgggttatg atagtcacaa tgctcgag 158

<210> 704
 <211> 439
 <212> DNA
 <213> Homo sapiens

<400> 704
 gaattcgcgg ccgcgctcgac acacaattct tttcttccgc ttggatattc gcatgggect 60
 actttacatc aactctgca tagtggtcct gatgactgac aaaccccccc tatatatggg 120
 ccctgagtat atcaagtact tcaatgataa aaccattgat gaggaactag aacgggacaa 180
 gaggggcact tggattgtgg agttctttgc caattggtct aatgactgcc aatcatttgc 240
 ccctatctat gctgacctct cctttaaata caactgtaca gggctaaatt ttgggaaggt 300
 ggatgttggg cgctatactg atgttagtac gcggtacaaa gtgagcacat caccctcac 360
 caagcaactc cctacctga tctgttcca aggtggcaag gaggaatgc ggcggccaca 420
 gattgacaat aaactcgag 439

<210> 705
 <211> 192
 <212> DNA
 <213> Homo sapiens

<400> 705
 gaattcgcgg ccgcgctcgac aacacagctt agcaggaaac cctgagctgt ctgactctca 60

```

agcctgtgtt gggaaatcct gccctgtgct gccctctgtt gcagagatcc tatctggata 120
aagtgtctggg taaccaggaa tcagaacctc tggaggacga gtatgacttc tttctgtcc 180
ctgtgtctcg ag                                     192

```

<210> 706
 <211> 205
 <212> DNA
 <213> Homo sapiens

```

<400> 706
gaattcgcgg ccgcgtcgac cctcaaaacta caaaggaaatg acaagagaag aaagggagca 60
gagagatcta gaacagatgc ctcaacgacg aagaatgaac agcactggtg gtcagacacc 120
cagaagagac ctggaaaagg tgctgacagg agaggagaag gctcttagac ctggagatcc 180
tggattctgt gcccgtagac tcgag                                     205

```

<210> 707
 <211> 279
 <212> DNA
 <213> Homo sapiens

```

<400> 707
gaattcgcgg ccgcgtcgac agaaaaataag cgattacaga aggaacttag tatgtgtgaa 60
atggagcgag agaagaaaagg aagaaaaggtc acagagatgg aaggccaggc aaaagaattg 120
tcagcgaaagt tggccctttc cattccagct gaaaaatttg aaaacatgaa gagctcatta 180
tcaaattgaag tgaatgagaa agcaaaaaaa ttagtagaaa tggaaaagaga acatgaaaaa 240
tcacttagtg aaattagaca gttaaaaaga gaactcgag                                     279

```

<210> 708
 <211> 228
 <212> DNA
 <213> Homo sapiens

```

<400> 708
gaattcgcgg ccgcgtcgac cctaaaccgt cgattgaatt ctgacctgc ctcgagcaac 60
ccgttcaactc aacaagccaa tctgatccca gggttgaacc tcagcgcaact tggcatcttt 120
tcaacaggac tgtccgtgct atctccacca gcagggcccc gcggagctcc ccccgctgcc 180
ccctaccacc ccttcaactc acaagccaat ctgaccccag ttctcgag                                     228

```

<210> 709
 <211> 189
 <212> DNA
 <213> Homo sapiens

```

<400> 709
gaattcgcgg ccgcgtcgac agggattggg aagacaaaga caaaggacga gatgaccgca 60
gagaaaagcg agaagagatc cgagaagata ggaatccaag agatggacat gatgaaagaa 120
aatcaaagaa gcgctataga aatgaaggga gtcccagccc tagacagtcc ccgaagcgcc 180
caactcgag                                     189

```

<210> 710
 <211> 293
 <212> DNA
 <213> Homo sapiens

```

<400> 710
gaattcgcgg ccgcgtcgac gataccttgt tacaggacag agattttctga accttaaagt 60
tgagaaataa ataaattgca caaaatagac agcctgtcat tttctagggt aacttgagca 120
agatgaatat tttcttcaga tctctgctag tcttggtgtt tttctttaa actagctgta 180
tcttgctgga ggtccctgaa agtgaattaa ctttggatct cttagggtatc tgtgttttga 240
atagagttta ttccaaatct atcttattat ggagtgaatg cgggcacctc gag                                     293

```

<210> 711
 <211> 143
 <212> DNA
 <213> Homo sapiens

<400> 711
 gaattcgcgg ccgcgtcgac ccaaaagttt gttctataat tattagagtt tgtttctctc 60
 tcatgtatca tctctttttg aaaggagtcc tgtcttgccct agctctgtac aattttcttc 120
 tcatggtact ctgtgtttctc gag 143

<210> 712
 <211> 195
 <212> DNA
 <213> Homo sapiens

<400> 712
 gaattcgcgg ccgagtcgac aagaaaggtt ctcacaagcg ctcagcatct tggggcagta 60
 cagatcaact taaggagatt gcaaaattac gccagcagtt gcagagaagt aaacacagca 120
 gtcggcatca tcgagataaa gaaagacagt ctccatttca tggcaaccat gcagctatta 180
 accagtgtcc tcgag 195

<210> 713
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 713
 gaattcgcgg ccgcgtcgac gaaaagacat taagttaaaa ttttaattta ttctcatatt 60
 aatatcaact ccattaaaag tttaaaattt catgggagaa aatataataa ggtaaagagg 120
 tagaatcact ttcagactta agaataatgt tgatttccca aatgctcgag 170

<210> 714
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 714
 gaattcgcgg ccgcgtcgac tgttgaaatt gctctcata ttactggttt tacatggaca 60
 cagaaactag gcactttaga ggtgcacttg catggcaggc tgggccccct tttctatatt 120
 ttatttccct ttttagtata gtggtactta aaatcaactg ttcactcgag 170

<210> 715
 <211> 200
 <212> DNA
 <213> Homo sapiens

<400> 715
 gaattcgcgg ccgcgtcgac aaaatacttt ggaaataata tacattttga cattctacca 60
 agaggacaac tttggttctg gaactggttt ctatttgta aatcagtttc cttttaacat 120
 aattaatccc tttaacaaaa agccgtctat gggattaaaa gacacgtgaa atgatacttt 180
 tattattccc attactcgag 200

<210> 716
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 716
 gaattcgcgg ccgcgtcgac gtgaaagtgc catggaaagc cattcaactcc tcaatcccaa 60
 cctgcagcaa ggtgaaggag tctctctcag ctccgaacc acgtggcagg agtttgtgga 120
 ggatctgggc ttctggagag tattgctggt gatcttcgtc attgctttgc tgcctcttgg 180

cattgcttat tatgtgagtg ggggtgctacc cctcgtggaa aaccacctcg ag 232

<210> 717

<211> 332

<212> DNA

<213> Homo sapiens

<400> 717

gaattcgcg cgcgctcgac ccttaccata tgtagcaac ctgtgcagaa gccctaccca 60
gacctaaactg ggaactggct ctgtatatca tcatctcagg aataatgagt gcactgtttc 120
tttttggtcat tggaacagcc tatttggaag ctcaaggaa atgggagcca ttctgaaggc 180
ggctatcctt tgaggcctcg aaccgcctc tcgatgtggg aaggccattt gatctcagga 240
gaatcgttgg tatttcatct gaaggaaact tgaacacact cagctgtgac cccggtcaca 300
gtaggggggtt ctgtggagca ggcttactcg ag 332

<210> 718

<211> 155

<212> DNA

<213> Homo sapiens

<400> 718

gaattcgcg cgcgctcgac gtgtgcttac acttctgtg ccagagtata caccaacaag 60
tattccagaa gtccaacaag agaataaat caatcctcaa gacctaacag tgaatctagt 120
tgctaattgta cctcaagatg gagaagatgc tcgag 155

<210> 719

<211> 188

<212> DNA

<213> Homo sapiens

<400> 719

gaattcgcg cgcgctcgac gctttccgat ctactccttt tategttctt agcagtccca 60
cagagcaaga agggagacaa gataagccaa tggacacgtc agtgttatct gaagaaggag 120
gagagccttt tcagaagaaa cttcaaagtg gtgaaccagt ggagttagaa aaccccccat 180
cactcgag 188

<210> 720

<211> 176

<212> DNA

<213> Homo sapiens

<400> 720

gaattcgcg cgcgctcgac cctgcctcga actcctgacc tcaagtgato ctcccaccto 60
agcctccccg agtgctggga ttaaagacgt gagccacggc acctggcctg aattttcttc 120
aaattcaaaa aatcctgatg aaggtttggc taaaatcttt ggtgagctac ctcgag 176

<210> 721

<211> 226

<212> DNA

<213> Homo sapiens

<400> 721

gaattcgcg cgcgctcgac tttttgggta cgcttatata atttgagctc ttgactttga 60
aaagggtttt cccttttgga tcttaattcc accgtgtata aatatggatg agtggatatg 120
gggttagggct gaagttattc tcattaatat tcatcattag tggatcttg ttccatttac 180
tataaaacac attgcatcaa tgcactttaa aaaaattctta ctcgag 226

<210> 722

<211> 222

<212> DNA

<213> Homo sapiens

<400> 722

```
gaattcgcgg ccgcgtcgac gttaatattg aagtacagtt ggcttcagaa ctagctattg 60
ctgccattga aaaaaatggt ggtgttggtta ctacagcctt ctatgatcca agaagtctgg 120
acattgtatg caaacctggt ccattctttc ttctgtggaca acccattcca aaaagaatgc 180
ttccaccaga agaactggta ccatattaca ctggtactcg ag 222
```

<210> 723

<211> 184

<212> DNA

<213> Homo sapiens

<400> 723

```
gaattcgcgg ccgcgtcgac ttaagatctt gtggtcacaa ctgatgaaag gcgcccttga 60
catctgtctg tgccctctgtt tctttttgga gatagagtct gtctctgtca cccaggctgg 120
aatgcagtg ggcgatctcg gctcactgca acctccacct cccaggttca agcgatatct 180
cgag 184
```

<210> 724

<211> 304

<212> DNA

<213> Homo sapiens

<400> 724

```
gaattcgcgg ccgcgtcgac cccaaaagga cccagacatg gcaatggaga tttgtgctac 60
ggatgctgta gatgatattg aagaaggctt taaagtccta atgaaggcag acctggtag 120
acaggaaatcc ttgcaagcag aggttatccc agatccaatg gagggagagc aaacctggcc 180
cactgaggag gagctgagcg aggcaaagga tttcttgaag gaaagttcta aggtggtaaa 240
gaaggtcccc aaaggaacat ccagttacca agctgaatgg attttggatg gtggcagact 300
cgag 304
```

<210> 725

<211> 234

<212> DNA

<213> Homo sapiens

<400> 725

```
gaattcgcgg ccgcgtcgac attgaattct agacctgcc taccattcac ccagctcaca 60
gactgccaac aggaagtgtt gtttggttag tttcctocca cttgtctacc cctcctttgt 120
ccttagacca acatgtttac ctctctgctt tgccaaactta gccagcaggc catccccggc 180
cctaagctct cctggccatt atctcttagt tatggctttc acgtctctct cgag 234
```

<210> 726

<211> 160

<212> DNA

<213> Homo sapiens

<400> 726

```
gaattcgcgg ccgcgtcgac gaggggggtg gggtacatga gtatatatat ctttatcaaa 60
actgaaagaa ttgtaccctt taagatttct aggccaaagt cagtggctca tgctgtgat 120
cccagcactc tgggagggtc aggtgggtgg atcgctcgag 160
```

<210> 727

<211> 335

<212> DNA

<213> Homo sapiens

<400> 727

```
gaattcggcc aaagaggcct agcattgctg agtggggacc ttttgggttg agcttatatt 60
```

```

accttttttt ttttttttaa ttcttggtgc tcttttatca cctttcttaa tcttttaatg 120
tgtctgtttg caatatgggg gttagacttt ttttatcatt accttttctt ttcttggtgc 180
gtacatttac ctttttcaca aatactgtaa gctgtcctgc tccttgaggg actacagggc 240
ctgggcaggg cccccagca acaattcacc cacagtgcac ctgcacatgc ctttcttaca 300
tgcttgetct gtctogaact agtcacaatc tcgag 335

```

<210> 728

<211> 425

<212> DNA

<213> Homo sapiens

<400> 728

```

gaattcggcc aaagaggcct acaacccccg ggacaaccag ctctatgtat ggaacaacta 60
ctttgttttg cgctatagcc tggagttttg acccccagat cccagtgtcg gccagccac 120
ttccccgcct ctcatgacca ccaccacagc ccggcccaca cccctcacca gcacagcctc 180
gcctgcagcc accactccac tccgcggggc acccctcacc acacaccagc tgggtgccat 240
caaccagctg ggacctgacc tgcctccagc cacagctcca gcaccagta cccgaaggcc 300
tccagccccc aatctgcatg tgtcccttga gctcttctgt gaaccagag aggtccggcg 360
ggtccagtg ggcagctacc aacagggtat gctgggtggag agaccttgcc ccaagggaac 420
tcgag 425

```

<210> 729

<211> 137

<212> DNA

<213> Homo sapiens

<400> 729

```

gaattcggcc aagtatttgt tcaaccagct gtttgagag gaagatgtcg atcaagatgc 60
tgatcaagaa gtgtctcctg acagagctga cctgaggct gcttggaac caacagaggc 120
tgaagctaga gctcgag 137

```

<210> 730

<211> 196

<212> DNA

<213> Homo sapiens

<400> 730

```

gaattcgcgg ccgcgtcgac cctgggcaac atagtggagc ccattctcta agaaacaaac 60
aaaaaatcaa ttgtatttct agatactagc agcaaaacac ttaaaaatga aaattagcca 120
ggcgcggtgg ctacgcctg taatggcagc actttgggag gccaaagggtg ttggatcacg 180
aggtcaggag ctcgag 196

```

<210> 731

<211> 439

<212> DNA

<213> Homo sapiens

<400> 731

```

gaattcggcc aaagaggcct acagaatgaa gctccggcta attgcatttg tcttaatect 60
ctggactgaa accctggcag accagagccc agggccaggc cccagtagc cagacgtggt 120
gtttctgtg gacagctccg attacctggg aattaagtcc tctccatttg tgagaacttt 180
tctcaacaga atgacagca gcctcccat agaggccaac aagtaccgcg tggccctggc 240
ccagtacagc gatgetctcc acaatgagtt ccagctgggc accttcaaga acaggaaccc 300
catgctgaac cacctgaaga agaacttcgg gttcatcggt ggctccctga agatagggaa 360
cgccctgcag gagctcacag gacctatttc tctgtcccca gaagtggag agacaagaaa 420
cagttccccc aaactcgag 439

```

<210> 732

<211> 259

<212> DNA

<213> Homo sapiens

<400> 732

```

gaattcggcc aaagaggcct acaggcttcc cgcaattaaa acatgtcctc tgatcattac 60
tgcccatgga gcggttctga gattgaagga tggcgccgcg taagcctgca ttggtgagag 120
gacccccaag ctctcgacag accctgagcc agtcttgtaa gcctttgttc tttcttgggg 180
ctatggccgc tcggcactcc tttgtggctt gctcatagat tagctgttct atcagaggcg 240
cagcttgctc tgactcgag                                     259

```

<210> 733

<211> 231

<212> DNA

<213> Homo sapiens

<400> 733

```

gaattcgcgg ccgcgtcgac cgagtctgag tggctgaatt ctacacatct ctctagtccc 60
tctgaagccc cacctctgga gcgtgcctc tgatcacccc agccacagt gatctgagtt 120
cacagagcac atcctgtttg aatgccccat ttgaatcaca gcctattcct ctttttgagt 180
gttgggtgtg ccttaagtgc acagatggct ttccaccagc tggacctega g          231

```

<210> 734

<211> 352

<212> DNA

<213> Homo sapiens

<400> 734

```

gaattcggcc aaagaggcct aagtgattcg attcaacata gactacacga ttcattttat 60
cgaagagatg atgcctggga atttttgtgt gaaaggactt gaactgtttt cattgttcct 120
attcagagat attttggaaat tatatgactg gaatcttaaa ggtcctttgt ttgaagacag 180
ccctccctgc tgtccgagat ttcatttcac gccacgtttt gtaagatttc tccagatgg 240
aggcaaggaa gtgttatcca tgcaccagat cttctctac ctgctgcgct gcagcaaggc 300
tctggtgccc gaggaggaga ttgccaacat gctccagtgg gaggagctcg ag          352

```

<210> 735

<211> 241

<212> DNA

<213> Homo sapiens

<400> 735

```

gaattcgcgg ccgcgtcgac gtcgtcacc ctttctccat cgtctcccgg aggtcctggt 60
gggcccgaag gaccaggggc acccctgtgg cccttctcgc ctggcaacc agccaggccg 120
tcgaaacccc ggtcacccct ggggccagtt tgtccaggca ttctctctgg tccatcactc 180
ccagcccgac ccggtcttcc gggcttccc gcccgaaccag gcgggccttg cacacctega 240
g                                     241

```

<210> 736

<211> 465

<212> DNA

<213> Homo sapiens

<400> 736

```

gaattcggcc aaagagccta gggagggttg tttcctgacg ggaggtaggg ggactgctga 60
ggataaccag gaccaggggt tcggccccc actaaggggt accctggacc agagtactag 120
ttggagccgt acgatagcca ggctggggcg ggccactcct ctgtggagac caagagtaac 180
ccaccatggc cctgggtcct gcatgaggtg atgggtaagg acccagaggc ccaccatagg 240
aggaaaggctg ggccaccaca ggggaagggg ctggctgcag ggtccctgg gctgtcgggc 300
ccacaggcaa gcctggggat gggctgtagg gcaaagggtta gggagtcact acagagggct 360
gtggaggctg ttcttcagtc tcaggcggtg tcgcctgggg tactgggcgt ggggggtggcg 420
ggcgcttttg agggacatct ccagccagct ccggcaaagc tcgag                                     465

```

<210> 737

<211> 509

<212> DNA

<213> Homo sapiens

<400> 737

```

gaattcgcg cgcgctcgac caaccgtcaa aatgtccaaa gaacctctca ttctctggct 60
gatgattgag ttttgggtggc tttacctgac accagtcact tcagagactg ttgtgacgga 120
ggttttgggt caccgggtga ctttgccctg tctgtactca tcctggcttc acaacaggca 180
acagcatgtg ctgggggaaa gaccagtgcc cctactccgg ttgcaaggag gcgctcatcc 240
gcactgatgg aatgaggggtg acctcaagaa agtcagcaaa atatagactt caggggacta 300
tcccgagagg tgatgtctcc ttgacctct taaacccag tgaagtgac agcgggtgtg 360
actgctgccg catagaagtg cctggctggt tcaacgatgt aaagataaac gtgcgcctga 420
atctacagag agcctcaaca accacgcaca gaacagcaac caccaccaca cgcagaacaa 480
caacaacaag cccaccacc actctcgag 509

```

<210> 738

<211> 343

<212> DNA

<213> Homo sapiens

<400> 738

```

gaattcgcg cgcgctcgac gagctgggtg gtggttgtgg agttgggtgt gaataatgaa 60
ctgcagccaa tcatattgctt tggcacattc tctaaggtaa gatatgctta gtttcatatt 120
gtgtagcctg cagaactgca ccactaatgc ccattggctg ctagattcac tggataacct 180
ctttatttcc tgttgctgaa tgctgttcca tgtaccttct tctaagagaa caagcaattc 240
ttctgtgggt gtcttttccac catcagctag ttttagatagt ttttcggcta cagactctct 300
gataaagctg tactgagcga ttgaattcta gacctgcctc gag 343

```

<210> 739

<211> 106

<212> DNA

<213> Homo sapiens

<400> 739

```

gaattcgcg cgcgctcgac aggggttggg tgtttttttt cttcttttct tttaaataaa 60
aatgtgcaa ggtttccgcc tctgcgttcc cgttgtgctg ctcgag 106

```

<210> 740

<211> 479

<212> DNA

<213> Homo sapiens

<400> 740

```

gaattcgcg cgcgctcgac cgggaaacca aaatggcgag gggctgtatt gaagtgggct 60
gtgtttgagg cgggtgtaag aacgctcatt ctaccccaaa cccttgtctc caaggacctc 120
ggttttgcgc tgcataatgt cgggttaccg ggtggggcgg gtgcccagta agtgctcgga 180
ctcgcagggg aagcgcaccac ggggacggat tgggtgtttt ttctgtatg aagcgggttg 240
caccactgaa gtgaccgaat gaggtgagag accttggcct gggaaaccgac tcttcgggag 300
gagatggggg ttggggggaag gaggaagaaa gaaagcaagt ataaaaggga aagatggagg 360
accaaggttg ggggtggggc tctgttatgt ggggtgcctt gcatttatgt gtatatgaa 420
aagaatggat gaagaggagt agtcagttga gtgttgggag aaaaatgaga ctactcgag 479

```

<210> 741

<211> 195

<212> DNA

<213> Homo sapiens

<400> 741

```

gaattcgcg cgcgctcgac gtgtcctttt ctctaaaaat aagtacagat cacattcctg 60
ttttcgaaaa tgataggcaa aagttgggga acattacatg atatccaaa cacgtttatt 120
ctatatctgt gtttcagatt tcattcttta gacttgggtt tacgagttac tgtgctaact 180

```

ccacaaactc tcgag

195

<210> 742

<211> 592

<212> DNA

<213> Homo sapiens

<400> 742

```

gaattcgcg cgcgctcgac cccattggct gaagatgaga ccattcttcc tcttgtgttt 60
tgccctgctt ggcctcctgc atgcccaaca agcctgctcc cgtggggcct gctatccacc 120
tggtggggac ctgcttgttg ggaggaccog gtttctccga gcttcatcta cctgtggact 180
gaccaagcct gagacctact gcacccagta tggcgagtgg cagatgaaat gctgcaagtg 240
tgactccagg cagcctcaca actactacag tcaccgagta gagaatgtgg cttcatcctc 300
cgcccccatg cgctgggtggc agtcccagaa tgatgtgaac cctgtctctc tgcagctgga 360
cctggacagg agattccagc ttcaagaagt catgatggag ttccaggggc ccatgccgcg 420
cggcatgggt attgagcgct cctcagactt cggtaagacc gggggagtgt accagtacct 480
ggctgcggac tgcacctcca ccttccctcg ggtccgccag ggtcggcctc agagctggca 540
ggatgttcgg tgccagtccc tgccctcagag gcctaattgca caccaactcg ag 592

```

<210> 743

<211> 367

<212> DNA

<213> Homo sapiens

<400> 743

```

gaattcgcg cgcgctcgac gtgaccttgg ataaattcct taagtctctt ggtgtttctt 60
catctttttt taaataatag ctttattgaa gtatacagtc atgttgagaa atgcgctcatt 120
agacaatttc gtacatgcgt gagcatcaca gagtatactt atattaaccg agagggtataa 180
cctacccac acctaggcta tatgatatag tctattgtct ctagtctgca aacatgtgca 240
gcatgttact gtactgaata ctgtaggcaa ttgtagtaca atgggtatttg tttatctgaa 300
catatctaaa ctaacaaaag tacagaaaaa tgtgatataa cagattttta aaagggtacgc 360
gctcgag 367

```

<210> 744

<211> 655

<212> DNA

<213> Homo sapiens

<400> 744

```

gaattcgcg cgcgctcgac tccaaatgag aaaaaagtgg aaaatgggag gcatgaaata 60
catcttttct ttgttgttct ttcttttctt agaaggagcg aaaacagagc aagtaaaaca 120
ttcagagaca tattgcatgt ttcaagacaa gaagtacaga gtgggtgaga gatggcatcc 180
ttacctggaa ccttatgggt tggtttactg cgtgaactgc atctgctcag agaatgggaa 240
tgtgctttgc agccgagtca gatgtccaaa tgttcattgc ctttctcctg tgcataattc 300
tcattctgtc tgccctcgtc gcccagaaga ctcttacc ccagtgaaca ataaggtgac 360
cagcaagtct tgcgagtaca atgggacaac ttaccaacat ggagagctgt tgcgtagctga 420
agggtctctt cagaatcggc aacccaatca atgcaccag tgcagctgtt cggagggaaa 480
cgtgtattgt ggtctcaaga cttgccccaa attaacctgt gccttcccag tctctgttcc 540
agattcctgc tgcggggtat gcagaggaga tggagaactg tcatgggaac attctgatgg 600
tgatatcttc cggcaacctg ccaacagaga agcaagacat tcttaccac tcgag 655

```

<210> 745

<211> 268

<212> DNA

<213> Homo sapiens

<400> 745

```

gaattcgcg cgcgctcgac cattgtcaaa cttgacctt taaataatct gatttaactc 60
ctttttaatt taaatcctgt ttaattcat gacactggaa gctatatata taataacctt 120
tttttcatct ttagattgga caactagtgg ttgaagagc cagggccgtc tgtcagtagg 180

```

aagtaatcgt gatcgagaga tcagcatgtc tgttggctcg ggaagatcac aattagattc 240
 taaaggagga gtagttggag ttctcgag 268

<210> 746
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 746
 gaattcgcgg ccgcgtcgac ataagttaaa gatgtatagc gtgtataata ccttactata 60
 ccttatcata gtgattcacc ttaccatagt gaaccttaaa atagtatact tctggccagg 120
 cgcggtggct tacgcctgta atccaacac tttgggaggc agaggtgggc cgaacctcga 180
 g 181

<210> 747
 <211> 694
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (35)

<400> 747
 gaattcgcgg ccgcgtcgac ataaaaagaa aagtnagggg ggtattgaaa tcgttaaaga 60
 gaaaacaact aggagcaagt caaaggagag gaaaaaatct aaaagcccat ccaaagaag 120
 taagtctcaa gatcaagcaa ggaaatcaaa atccccctacc cttagaaggc gatctcaaga 180
 gaaaattgggt aaggccagat ctctactga tgataagggt aaaattgaag ataaaagtaa 240
 atcaaaagat aggaaaaaat cccaattat aaatgaaagt agaagtcgcg atcgaggtaa 300
 aaaatccaga tccccagttg atttaagagg taaatccaaa gacagaaggc cacgggtccaa 360
 agagagaaaa tcaaaacggt ctgaaactga taaagaaaaa aagccaatta aatctccctc 420
 taaagatgct tcattctggga aagaaaatag gtcaccacgc agaagacctg gtcgtagtcc 480
 taaaagaaga agtttgtctc caaaaccacg tgataaatca agaagaagca ggtctccact 540
 tttgaatgat agaagatcta agcagagcaa atccccctcg cggacactgt ctctggggag 600
 aagagccaag agccgatcct tagaaagaaa acgacgagaa ccagagagga gacgactttc 660
 ttctccaaga tcccccttaag aacacgacct cgag 694

<210> 748
 <211> 714
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (672)

<400> 748
 gaattcgcgg ccgcgtcgac cataaagtta attctcataa tttttgctgg gtttaataat 60
 tcaaaatatg aatcaaaatt tttatttatg cagtttcatt ctattaaaat tatctgctaa 120
 attaatatta agtagtccta tagcatatat tatttaataa ttgcaagtag tgacatatca 180
 taaataaact gtataatatg tattattgat tctgttattt tatttttctt agcaatgcac 240
 aggggaaccag taaatttcac aagcagagaa tactaacttg tcatttatat aatattctaa 300
 acaaatgaag ccgcctctat aagtgaattt tctggacttc taaagatgag cattgttgag 360
 ttttaataact caaattttta ttgtgttaag taaagtatat taaatataac ctccacctaa 420
 tgactcagct gtaattaaaa aagaattcac gaccagcctg ggtaacacgg tgagacccca 480
 tctctacaaa aataaaaaat aaaaatgaaa attaaaaaaa attagccagg catggtggca 540
 tatacccaag tactctgaag gccgagggcg gaggattgct caaacctagg agtccaaggc 600
 tgtagtgaac tgtgatagtg ccactgtact ccagcctggg aaacagagca agaccctgtc 660
 tcttaaaaaa cnacaacaaa cctacacatg aaaattattg ctgcttccct cgag 714

<210> 749
 <211> 466
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (25)

<220>
 <221> unsure
 <222> (230)

<400> 749
 gaattcgcgg ccgcgtcgac gtgtngggaga aaaaactgct gagaagccaa agaaactgcc 60
 accacagggg agacagagtt tgttgttcaa atcccaccaa gtagaggagg gcttggtaaa 120
 caccttgggt tttccactga aacttcaaaa agatgggtca tgcttttagaa gtaaagattg 180
 agtttaaat aaggacagaa aaatattgat tggatttgcc tttttgaccn actcaggaac 240
 aatttcgggt taggaatggg tatgggagag agagagaaga gcaggctaac gaaatagcaa 300
 acaactcttg agagagtctg ttgtatggag aaatagggtt gtatttggat ggggaagttt 360
 tgtttcttag gatggaagac actagagcaa gtctgtttt tggtttttt ttgagatgga 420
 gttttgcttt gttgcccagg ctggtgtgca gtggtgcaat ctcgag 466

<210> 750
 <211> 602
 <212> DNA
 <213> Homo sapiens

<400> 750
 gaattcgcgg ccgcgtcgac agtaacactt aactcttcta taagtaatag aatctattta 60
 gttttgaaga gtagtgata gattgcaagc tcattaccta gtttcacttt caaccagaac 120
 tggagaaaat attaagtggg acaattacac taaaaatatg caaagtatac attttaagta 180
 ttttatgttc cagaacagct gccacatgtg atactataat caatctaata gaaataaaag 240
 tccacctctt cttagaacat aggttctcca ctggaggcag ttttgcctcc caggggggatg 300
 ttgacaatgt ctggacacat ttttggtttt cacagcgggg ggagagaggg actgtgtgcc 360
 attggcctct agtgataga ggccggggat gttgctaaac atcctacaat gcagagaatc 420
 acccactgac gacaatgaat ttttctgtcc aaaacgttaa cagtaccaag attttggaac 480
 cctaccttaa gagtatacat aaggtaatgc ttttctaaaa ggtctgtgtt agagttgcat 540
 atgtatccag caacatgtga gccctaggac agggccttgc ccataatacc ccctcactcg 600
 ag 602

<210> 751
 <211> 353
 <212> DNA
 <213> Homo sapiens

<400> 751
 gaattcgcgg ccgcgtcgac gattaaagga tttacctgaa gagaaagcat tctattcattc 60
 agagactgga caagagttag tcttgcattt ggcaattaaa gatgatgttt ccatggaaac 120
 agttgatcct gctttcattc attggctgct taggaggtga gcttctctta caaggccctg 180
 tatttatcaa agaaccagc aacagcattt tccctgttg ttcagaagat aaaaaataa 240
 ctttgcattg tgaagcaaga ggcaatccat cacctcatta cagatggcag ctgaatggaa 300
 gtgatattga tatgagtatg gaacatcggt ataagttgaa tggaggactc gag 353

<210> 752
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 752

```

gaattcgcg cgcgctcgac ggggcaggga taaattcgta aaaataaaag aaatctttat 60
taaaaccaa tgccatggaa attttttaga gaattctcat agttatacta aacctgagga 120
aaaataacat aatattgact gtttaaagag aactctgttt tcaagcctgt aaaactaatt 180
gatataattt tctacctaga atttagatat tatgaaattt ttttttggtt ttgttttttt 240
ctttaggatc acagtatcac tcgag                                     265

```

<210> 753

<211> 589

<212> DNA

<213> Homo sapiens

<400> 753

```

gaattcgcg cgcgctcgac cactttacct gtctgtaaga tggacatggt taggtctacc 60
catgagggt atgtggggat tggagaaaat ggaagtaaag aactagtcca gagccaccct 120
tggtgaaaag ccactgtcat catcatttac catcgtcatt ctccatcca gccatccacc 180
caccaccgc cagcgtgctc ttctctgtg accgatgtct ccggtgtagc catgaacctg 240
catgctcagg atgcagacga cggtttggga agaggggtgcg tgactgcctg gtgggactgc 300
atgtcagctt cccatgaagg ggcaccttg gtgagctcac tgtttcctaa cggcatctgg 360
cattttctcc ttcccatctt gacctgtca gttatcacca tctacacga ctgctcactt 420
catttaaaaa aaccagttt gctttttttt aaacctttta tgtattctaa gtgatagaag 480
gtatggtctt ggtctacgat atgtttttta tttttcttga aatacataaa tattaataa 540
aaattgtgct atgttttcaa ctaagatcat cttgaatctc accctcgag 589

```

<210> 754

<211> 360

<212> DNA

<213> Homo sapiens

<400> 754

```

gaattcgcg cgcgctcgac taagtacagc aaaaaagaaa gggggggaag aaaagaagaa 60
ggaagaggaa agggaggagg aggatttacc attcacttac actagaaaca gtgaaaatag 120
ataatagcta taatttactc acatcttacc taaaacacaa attcagggtta atttatgagc 180
aagtcatttt ccggtgggct ttcgatatgt tgtgaatttg gaatgaatgc tggtaacttc 240
agtcctcttc cacctgcagc accagggaag cattgttgtg gggaggccac caacttggct 300
ggcatgttgc ttctgcctca gttagtgtg atgggtgattt ggagagaaag gacactcgag 360

```

<210> 755

<211> 536

<212> DNA

<213> Homo sapiens

<400> 755

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gaattcgcg cgcgctcgac gttgggatat ggggtggttg actaaagaat ggttccttct 60
tctaattcgc caaatttttc atccagatta tggcatgttt acatatcaca aggattcaca 120
ctgccattgg tttagcagct ttaaattgtga taactattct gaattccgat tggttggaat 180
tcttatggga ctagctgttt ataacagcat caccttggat attcgtttcc ctccctgctg 240
ttacaagaaa ttattgagcc ctcccatcat tctagtgtat caaaatatac cagtaggcat 300
ctgcaatgtt accgtggagc acttatgtca aattatgcct gagttggccc atggattaag 360
tgaactctta tcacatgaag gcaatgtcga agaagatttc gattcaacat ttcaggtttt 420
tcaagaagaa tttggaacaa tcaagtccta taatttaaag ccggtgtgtg ataaaatttc 480
agttaccaat caaaatagaa aagaatatgt acagctttat accgactttc ctcgag 536

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<210> 756

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (192)

<400> 756
 gaattcgcgg ccgcgtcgac cgaagggtgga ggtggaagac cagggatgca cagctcagaa 60
 ggcaccaccc gtgggtgggg gaagatgtcc cctacacca actgctatgc ccagcgtac 120
 taccccatgc cagaagagcc cttctgcaca gaactcaacg ctgaggagca ggcctgaag 180
 gagaagggaag gngaaggga gctggacca gctgaccac gccgaaaagg tggccttgta 240
 ccggctccag ttcaatgaga cttttgcgga gatgaaccgt cgctccaatg agtgggaagac 300
 agtgatgggt tgtgtcttct tcttcattgg attcgcagct ctggtgattt ggtggcagcg 360
 ggtctacgta tttctccaa agctcgag 388

<210> 757
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 757
 gaattcgcgg ccgcgtcgac cttagcactt caatttaaaa acatagaggt ggaattttta 60
 atgtattttt gagttgactt tggcaggctg aaagaaagta aattaaaaaa aaaaacaaaa 120
 acctagagct gttgctctcg gagataagct ctgggaaaac ttatcttagt acctcatgct 180
 atttttaaaa cagtacattt atttttgcca gctgataccc ttctgtgagg agttgaattt 240
 gaagaccact gggctcgag 259

<210> 758
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 758
 gaattcgcgg ccgcgtcgac gtcaccacgc ccagcccaag aaagatacat ttttaaaaac 60
 agctttattt tgggtataatt gacgtaaaat gtacatactt aaagtataca gtgtgatgtt 120
 ttgatataata tgtatactct tgaaaccacc accacagtta aaataatgaa aatgtccatt 180
 acctccagaa gtttcttcat gttttgttgt aatctctcct tctcctccct gattcctccc 240
 catccccagg cactcgag 258

<210> 759
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 759
 gaattcgcgg ccgcgtcgac agtatttaca gtttgactga cattgcttgg ctgcccataa 60
 taaagtgttt tgcttgggtg ctattgaatg ctttttaact tagtttttag acaattttgc 120
 aggctttatt taagcatgtt gtattttgga ctgaggcaag tctttgcgga actcgag 177

<210> 760
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 760
 gaattcgcgg ccgcgtcgac tgtaaatctt gtaattaatg gtcaaactgt ataaagggat 60
 tggtagtcaa aacatgtaca aagaaatacc tgtaaaactg ttttgtctca tgttttattg 120
 gaccaaagtt gtggtttgta tggagtgtag tagtagtgga ctcgag 166

<210> 761
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 761
 gaattcgcgg ccgcgtcgac accaaatcac gggactgttc agcacaaaga aactgaactt 60

gccaatgttt acagtcttga gaaggttctc catcctgttt acaatgtttg ctgaaggagt 120
tttactcaag aagacttttt cttgggggtat taaaatgact gtatttgcaa tgattattgg 180
agcctttgta gctgccagct cctcagag 208

<210> 762
<211> 289
<212> DNA
<213> Homo sapiens

<400> 762
gaattcgcg cgcgctcgac aaacatactt gtttttaact ctcaggaatt tcatgaggaa 60
caagtttaag ttttatatat atctatgtat gcttttcata aaccacaaat aagttttatac 120
acttttagctg gaacttttta taatttcaga ggggttattg aactgactgt tggcattgga 180
tataagaatt tggcttcagg catttgctat tgagggttta aaaatgttta aatatcttac 240
tgtaattttt ttgttttggt atttgggaca atgcagctgt aatctcgag 289

<210> 763
<211> 207
<212> DNA
<213> Homo sapiens

<400> 763
gaattcgcg cgcgctcgac gaacagttag tagtagggct aagatttggt ttcagatttt 60
atttccaact agaaagacca ttttaacact gttttgggta ttgtttgtag agagctttct 120
aaataagtgg gtacctttat tatgattaag aaagtaattg actatttggt aggatttcat 180
acagaattat tgataagcac gctcgag 207

<210> 764
<211> 358
<212> DNA
<213> Homo sapiens

<400> 764
gaattcgcg cgcgctcgac gagaaggagg ggaacaagca gagactttta ctgggacaag 60
taaattcaagc cttcagcaac tcaaggaaca aacatacaag acaagctcaa ctctcgtta 120
agaccaaatt aggataacac tacaagaaaa taaattgttt tatctggttg tgggtccttg 180
gggatagtta attgactact caaataacaa ctttgatagt atatgaactg tgactgtgtt 240
agtagggtttt aattagcagg aactttttgt aaattggaca aaaacttttt ttattatgac 300
taggaaaact gctgttttct atttttggtt tgctctttta aataataaccg aactcgag 358

<210> 765
<211> 178
<212> DNA
<213> Homo sapiens

<400> 765
gaattcgcg cgcgctcgac ctactgtttt ctgtgttata ctttgtgtta gtgcagagtg 60
tttgggtgtaa ctggctatcc ttttggaatc tttttgttat ttaataattt ttaattgttt 120
acacattttt agaaagtatt cgtttccgta taggatgatt gtatgggtct ttctcgag 178

<210> 766
<211> 103
<212> DNA
<213> Homo sapiens

<400> 766
gaattcgcg cgcgctcgac ttgaattcta gacctgcctc gagttgccta ctgatttcaa 60
gtattacatg aagcttgtaa aaataacaag cagttacctc gag 103

<210> 767
<211> 407

<212> DNA

<213> Homo sapiens

<400> 767

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gaattcgcgg ccgcgtcgac ggcaagtctt aaaaactcga tttttatttt tatttgtatt 60
tacttatttt gtttatttat ttgagacaga gcaagactcc gtctcaaaaa aaaagcaaaa 120
caaaaaacaa aacaaaaaca aaagagggtgc aggccagaat tgtccccgtg gacatagtgt 180
gtcaattaga ttgcatactt taatccagcc tcagttgggtg tgtctgggtt ttctggctag 240
gaagaatgct gctgtggaat gtgctggaac agatccttac gtgcgctgtg ttggagtctt 300
tccaggtcag ggtttctcaa acggatttca ggacccttta catcatccag aatgatccaa 360
tagccccagg agcctgtgtc tgtgtggatt atatctgcgc gctcgag 407

```

<210> 768

<211> 268

<212> DNA

<213> Homo sapiens

<400> 768

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gaattcgcgg ccgcgtcgac gttcattgag gtttaagaga ataaaagaaa ccaaaaaaga 60
acttcacaat tctcccaaaa caatgaacaa aacaaaccaa gtgtatgcag caaatgagga 120
tcataactct cagtttattg atgattattc atcctcagat gagagtatat ccgtcagcca 180
cttcagtttc tctaaacaga gccacagacc aagaactata agagacagaa ctagtttttc 240
ttcaaaattg cctagccata aactcgag 268

```

<210> 769

<211> 372

<212> DNA

<213> Homo sapiens

<400> 769

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gaattcgcgg ccgcgtcgac aaattactta taaatttttt atagtgtgat ttttgacctg 60
ccttttatat gtatgaatat ttcatagttt tgcataatcag atgtaggcat acagacaaat 120
acataaacca atgaatatat tacatattct gtgttccaat aaaactttat ttatggacac 180
taaaatttga atttcataaa attttcccat gtcaagaata caaaataactt gagttttgtt 240
tttagctatt taataatagg tctcatttat tccacaggct gtagtttgta gtcttgcttg 300
aaacaataga aacagactga ttaagcagga gaagtttttt gaaagaattt tgtttggctc 360
agcaatctcg ag 372

```

<210> 770

<211> 126

<212> DNA

<213> Homo sapiens

<400> 770

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gaattcggcc aaagaggcct agggggtaat ttacatatgg ggtgtatata ttctaaaaat 60
agtaataaaa gtacctttta taagcaatgt tgtgtggctt gtagaagaaa gcaggaggga 120
ctcgag 126

```

<210> 771

<211> 311

<212> DNA

<213> Homo sapiens

<400> 771

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gaattcggcc aaagaggcct agtagaactc aagaagacag actaccaagg gtcacttgaa 60
gtcgtgattg ggtcactaat aacaccagga caaagttaag ggatcactac tcaagcataa 120
gccccagttt tcataagact gctgtgaaga tgtttgatat aaaggcttgg gctgagtatg 180
ttgtggaatg ggctgcaaag gaccctatg gcttccttac aaccgttatt ttggccctta 240
ctccactgtt cctagcaagt gctgtactgt cttggaaatt ggccaagatg attgaggccg 300
ggaaactcga g 311

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<210> 772
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 772
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 tttggtcata tactgtttac acaattgcca attcttgcca aatttggtgt tgtgcatttt 120
 attttctctc tttaatgtac tgctctgcaa ttatgcttgt aaaatgtttt tcctgttcac 180
 tcgag 185

<210> 773
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 773
 gaattcggcc aaagaggcct atgggtgaccc agccagataa tagtatcttg agcaataat 60
 agtatcttga gtgcaataaa gcaggaagac tgctcttcaa aaaatgtggg gttacatgat 120
 tttcagagcc tttttttcag agttgagcat cttttctttt aaaagaaata aggggcaaga 180
 ggaccaattt tattcttga ggaaaaatga cacacccttc tcccaaaaga aagaaaactc 240
 tctggccccc ccccttctcg ag 262

<210> 774
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 774
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 gatgtatcat ggaatgaacc cgagcaatgg agatggattt cttaggcagc agcagcagca 120
 gcagcaacct cagtcacccc agagactctt ggccgtgatc ctgtgggttc agctggcgct 180
 gtgcttgggc cctgcacagc tcacggggcg gttcgatgac cttcaagtgt gtgctgacct 240
 cggcattccc gagaatggct tcaggacccc cagcggaggg gttttctttg aaggctctgt 300
 agcccgattt cactgccaaag acggattcaa gctgaagggc gctacaaaga gactgtgttt 360
 gaagcatttt aatggaaccc taggctggat cccaagtgat aattccatct gtgtgcaaga 420
 agatctcgag 430

<210> 775
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 775
 gaattcggcc aaagaggcct atagagacat gaagaggctt gaagaaaagg acaaggaaag 60
 aaaaaacgta aagggtattc gagatgacat tgaagaggaa gatgaccaag aagcttattt 120
 tcgatacatg gcagaaaacc caactgctgg tgtggttcag gaggaagagg aagacaatct 180
 agaatatgat agtgacggaa atccaattgc agttctccct ata 223

<210> 776
 <211> 243
 <212> DNA
 <213> Homo sapiens

<400> 776
 gaattcggcc aaagaggcct aaagattcga acaatgagtt taccagctct gagaaaaatg 60
 aactgctcca gaaccttcaa gaatgtttct ctgtatcacg cccacatcac accgaatcca 120
 tttgtcgtca ttgcagagtt catctttctg gttttgagca ccatctcaca cagttctttg 180
 tctttttcca gtctgctgtt gactgggtta gctcagcccg aaaggtgccc cactccctc 240
 gag 243

<210> 777
 <211> 249
 <212> DNA
 <213> Homo sapiens

<400> 777
 gaattcggcc aaagaggcct agagcaagga ggtactctga gagctctggt ttgcagaaag 60
 agagaaaaga caggatagat gaagagtagc caaaactccg tagaactggg gggagttact 120
 gagcagacag gatggcatca cagagtgtgc catggtgggg taggagggcg gccaacaggg 180
 acagaggagg gtcctctgcc agggagagaa acagagggaa tttgggggaa accagttgca 240
 gatctcgag 249

<210> 778
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 778
 gaattcggcc aaagaggcct acaaaaacca caaaagtgtc tacaagtctc ctggcatatc 60
 tctattttca gacactgaat ctgcagtagc aacctgtttt ctccaccagc ctagggttca 120
 taatcttctc tgcttgcctg gaccagaaa taaatcagag tacagcccca cctgggcccac 180
 tatctatagg acaaacacgt ccttccacct gcatttctact ctctccaacc cagggacttt 240
 gttttctttt aactttttatt tttggttggg tcaggggtat actcgag 287

<210> 779
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 779
 gaattcggcc aaagaggcct actttcataa atagaatttt catttttata aaattcaatt 60
 tataattttt tatggtttct ctctattaat cccattttaag aaatctttgt gccatgatta 120
 tgaagatgca ctctaatgtt tttttccaga agctctctgtag gtttagctttt tacctttctg 180
 ggcttggttt gttttgtttt tttgagatgg agtcccaact gtgtcaccca ggctggagta 240
 caatgggtgca atctcggttc actgcaacct ccacctcccg ggttcaagca attccctctg 300
 ctccacctct cgag 314

<210> 780
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 780
 gaattcggcg ccgcgtcgac cggagcagcg cctattagtg tcactcctcac cgtcacggcc 60
 ggcgcctcct cctggattca ttcactcgct cttttcattc acgaaggtag tgaggcctag 120
 tggaaagcca tggagagcgc tctcccgccc gccggcttcc tgtactgggt cggcgcgggc 180
 accgtggcct acctagccct gcgtatttct tactcgctct tcacggccct cgggtctctg 240
 ggagtgggga atgaggcggg ggtcggcccc gggctcggag agtgggcagt tgtcacaggt 300
 agtactgatg gaattggaaa atcatatgca gaagagtttag caaagcatgg aatgaagggt 360
 gtccttatca gcagatcaaa ggataaactt gaccagggtt ccagtgaat aaaagaaaaa 420
 ttcaaagtgg agacaagaac cattgctgtt gactttgcat cagaagatat ttatgataaa 480
 attaaaacag gcactactcg ag 502

<210> 781
 <211> 217
 <212> DNA
 <213> Homo sapiens

<400> 781
 gaattcggcc aaagaggcct agagagagag agagagctat taataaaaca gaggagtaca 60

ttttaccctt gcaattccag tcaatactgt ggtgtcattt cagccaacat accaaccattc 120
agtcaaattcc caaagccaaa tggataattt cagatggaat ggagttagac aggaactggc 180
ttccctttct cctgttacta tgaggacaac cctcgag 217

<210> 782
<211> 219
<212> DNA
<213> Homo sapiens

<400> 782
gaattcggcc aaagaggcct aggaatcatt gcttactggg tagagaattt ctgttcggga 60
tgaaaatttt tagaaacaga tagtggcaat agttatataa cagtgtgaat gtaattaatg 120
ccactgaact gtacagttaa aaatgggttaa catggcaaac ttatatctat ttgcccacaa 180
ttaacaacaa caaaaaaagc atgggctatt agactcgag 219

<210> 783
<211> 257
<212> DNA
<213> Homo sapiens

<400> 783
gaattcggcc aaagaggcct aggggagcgt tgtgttccat gctgctgtcc aggcacccag 60
cggcatgagt agcctatgca acctttagag caaggcggtc gcggcttcgc atcccaacat 120
gggcactgta tgatgtcccg catcaggcctt tcttatgtct gcctggagac cctaattatg 180
ggcggcataa tttgtccttg acggtctcat gcattttctg ggctgaatat ccggcaagca 240
ccagggttta gctcgag 257

<210> 784
<211> 218
<212> DNA
<213> Homo sapiens

<400> 784
gaattcggcc aaagaggcct attggaaaat agctgtgctg tcagcttttt gaggggggga 60
tttgttttgg tcagtcagtt ttatcataaa tttggcattt gggttaaaac agcaacatgg 120
aacaataat ttttagatgt tggaaattcc tggttttttt tgttttgttt tgttttgttt 180
ttttgagaca gcgtctttgt cacctgggcg ttctcgag 218

<210> 785
<211> 197
<212> DNA
<213> Homo sapiens

<400> 785
gaattcggcc aaagaggcct acttgttcca gcgagttgac tataattttt tctacctgt 60
tatctacctc tagctccatt gaacatcttc cttctgttaa gtgatagcca taagttctta 120
gtagcgaaat tattggatca aagagtagga caatttttat ggcactttta atgtgtgttt 180
tcaggcattg cctcgag 197

<210> 786
<211> 125
<212> DNA
<213> Homo sapiens

<400> 786
gaattcggcc aaagaggcct agtgcaca aaatttaaat ttttctcatt aggattcaga 60
tttcagatta ggcaaacagt ttggttgatt ctgtgatgta tgtaaagggtt ggaagggttc 120
tcgag 125

<210> 787
<211> 204

<212> DNA

<213> Homo sapiens

<400> 787

```

gaattcggcc aaagaggcct agtgattata aaattccatt tgattctttg tttttctcaa 60
attgcataag cagttagtag gaagaagatg atgaaccaca ggaggagtag tcagaagggg 120
agaagaacga gaaaagtaat gtcacagact gtgagggaat attatccaca aagatgggat 180
gttacagtgc cagatgagct cgag                                     204

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<210> 788

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (18)

<220>

<221> unsure

<222> (181)

<400> 788

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gaattcgggc aaagaggcct accccagctg atcttgaact ccagagctca agtgatcttc 60
ctgtcttgcc cttccaaagt gcttgaatta caggcatggg ccacagtgcc cagctgggaa 120
tgatttttag acagcaatct tagtgctttg ttaatttttg ctttgcattt taaacatgtc 180
ntctctgttt ttttcattcc ctttaccatt tataattttc ttcattattt cactatgaac 240
taatgtaaac acaaaacatg ttcattcctt gaatgtaagc tacacactta aacctttttt 300
gatacacctc ccagtttata tgatgccata tgaaaaaact tggatttata tccagattcc 360
tccatatctt gtctttctgt ggatggctca taaagtgtgc gtgtatgtgt gttgtgtttg 420
ctagatacat tataattatt gttattttat tatttaaaga aaggatcttg ttctgttgca 480
gtggcatctc gag                                     493

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<210> 789

<211> 151

<212> DNA

<213> Homo sapiens

<400> 789

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gaattcggcc aaagaggcct acgattgaat tctagacctg cctcgagcta tgcgtttgta 60
tttcttgctc cagcctctga atgttatctt caagttgctt gactctgaac tcactctctt 120
cagactgccg cctcctgact tccccctcga g                                     151

```

<210> 790

<211> 360

<212> DNA

<213> Homo sapiens

<400> 790

```

gattggctgt tagctttgag ctacagagaga aaaatacatt tagaagtttt tattgtgttt 60
tcttttagtta cggtagcgta gaataagggg acttaaaatt ggatcccttg aaattatatg 120
ttaattttta aaataagttt attaggtgga aggttctgta tcttttatca aaattgcaaa 180
ggagtctgtg aaataaaaag tactcagctt agattctaca gtatttcaaa ctgtcttttt 240
ggattttttt tttgagacag tcttgctctg ttgccaggc tagaggacaa gtagtgcggt 300
cttgactcac tgcaacctcc gcctcccatg ctcaagctat tattctcatg cctactcgag 360

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<210> 791

<211> 281

<212> DNA

<213> Homo sapiens

<400> 791

gaattcggcc aaagaggcct agagggatgg agagagagat gaaggaactg cagacccagt 60
acgatgcact gaagaagcag atggagggtta tggaaatgga ggtgatggag gccctgtctca 120
tccgggcagc ggagatcaac ggggaagtgg atgatgatga tgcagggtggc gagtggcggc 180
tgaagtatga gcgggctgtg cgggaggtgg acttcaccaa gaaacggctc cagcaggagt 240
ttgaggacaa gctggagggtg gagcagcatg agcaactcga g 281

<210> 792

<211> 279

<212> DNA

<213> Homo sapiens

<400> 792

gaattcggcc aaagaggcct acagggtgact cgaatgaact ctgcattttc aacgtgcctt 60
ctactgcttc aggacctggg ggtcccccctg accctcactg gcttgccccc agccctgggc 120
ctggcccccac ctgtctctgga gccagagacc cctggcctgg agctgcctct ctgggtggg 180
tctcaggccc caccctctcc tcttttgagt tcagtgcctt gctcagcccc tccctgtat 240
ctcagcgtct tgagacctct gacagagcga caactcgag 279

<210> 793

<211> 326

<212> DNA

<213> Homo sapiens

<400> 793

gaattcggcg ccgcgtcgac ctaaaccgtc gattgaattc aaggcctacc tgggaagaag 60
taaaagagca actagaaaag gaaaagaaag gctccaaggc tttggctgaa tttgaagaaa 120
aaatgaatga gaactggaag aaagaactgg aaaaacacag agagaaattg ttaagtggaa 180
gtgagagctc atccaaaaaa agacagagaa agaaaaaaga aaagaagaaa tctggtaggt 240
attcatcttc ttcttcatca agctctgatt cttccagcag ttcttctgat tctgaagatg 300
aggataagaa acaaggaaaa ctcgag 326

<210> 794

<211> 239

<212> DNA

<213> Homo sapiens

<400> 794

gaattcggcg ccgcgtcgac gacaccatgg ccaagctcat tcttgtcaca ggtctggcaa 60
ttcttctgaa cgtacagctg ggatcttctc accagctgat gtgctactat accagtggg 120
ctaaggacag gccaatagaa gggagtctca aacctggtaa tattgacccc tgcctgtgta 180
ctcacctgat ctatgccttt gctggaatgc agaataatga gatcacttac aactcgag 239

<210> 795

<211> 100

<212> DNA

<213> Homo sapiens

<400> 795

gaattcggcg ccgcgtcgac attgaattct agacctgcct cgagtgaagt acccaatgag 60
gaacctaaag ttgcaacagc ttatagacc caagctcgag 100

<210> 796

<211> 714

<212> DNA

<213> Homo sapiens

<400> 796

gaattcggcg ccgcgtcgac ctagctagct aaaaaaatc cttggggtct ggagtcacat 60
aaattatttt caatgcctgt tatttctactc ttgattttcc acaagatgac aagcctcttg 120

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gagataacctc cttgtatcta ctttccaggt tattagatac attattttcc caggtacatt 180
atagtttccc agatacatgt atagctttcc cagatacgtt atttttccat tatatagcaa 240
aattttacat ctgtggatta gaaattaaat ttcacaaagc acctaaagaaa gtcttaactg 300
ttctaaatct taagtgaata aagacctggc atgtgtttgt gttgtgtatg tctctctgtc 360
tctctgtgtg tgtgtgtgtg cgcgcgtgcg tgcgtgcgca ttggtatcag ttctgaaagt 420
gtatattggg gtctaagtta ggctcatgct ctcagaaatt tgatgcaaca tgcttgatt 480
atttgttca atatgagagt taaaaagtac attatagtgc tattttggaa aagaaagaaa 540
agcttttcag tagtaacctc acattttgca ttgtatatgt taccttttgc ttctttttct 600
tacacacgta tacaaaagta cataatgata atggtatcat tattgttgtt tttgttaacc 660
ctcatggatc actgtttccc aggttctctg ctaagtacca tacatgctct cgag 714

```

<210> 797

<211> 180

<212> DNA

<213> Homo sapiens

<400> 797

```

gaattcgcgg ccgcgtcgac gagggagggtg gtggtagttt gtgtttaata tttctagtta 60
agctggtagg agaagagagg aggaaagggtt tcctaaggaa gtagatagct gagttgagtc 120
attagagata aataagagct aatgagaaaa tatgtgggca gtatagtgtt gggactcgag 180

```

<210> 798

<211> 165

<212> DNA

<213> Homo sapiens

<400> 798

```

gaattcgcgg ccgcgtcgac agggcatctt gatatgctgc tcagtctctg ccttcttctc 60
ttccagatac actgtgcaga tgaagtcacc ggcattgctg gtccactgg cagtgccagc 120
cacgcgcac ttcacaatgg cagtgatctc ccccgctgc tcgag 165

```

<210> 799

<211> 422

<212> DNA

<213> Homo sapiens

<400> 799

```

gaattcgcgg ccgcgtcgac gaattctttt taaattttat tctggttggg attggctggg 60
cttctgaaat cttgtggatt tttatctttc taagtgtggg aaaatttttt cagccatttt 120
cttaaaatac agcttttccc ctttctctct tcttccctga gactacattt aaatatatgt 180
tagactttct cactatattt acttctgggt tctttttgta tttaaccaacc tttttctttt 240
gtttgttgaa acaaggcttg gctctgttgc ccaggctgga atgtagcggg atgatcgtgg 300
ttcactgcaa cctctgcttc ctgggctcaa tcgactctcc cactcagcc tcccaagtta 360
gctcgcatga catgccacca ttcttggtta gtttttgtat cttttctaga gacagactcg 420
ag 422

```

<210> 800

<211> 329

<212> DNA

<213> Homo sapiens

<400> 800

```

gaattcgcgg ccgcgtcgac cccccaggct caagcaatcc tcccatttca gcctcccgtg 60
tagctgggac cacaggcatg tgccaccaca ccttgctaag ttttgttttt tgtttgtttg 120
tttgttttgt agagaaagggt ttttgccatg ttgtccagat tgggtctcaa ttcctggact 180
caagcaattt gccaccttg gcctctcaaa ccgctgggat tgcaacgatg aaccacctca 240
accagccata ttctgtttct attataaatg atgagattaa gcgttcagac tgctgtttgc 300
aaacagtttt cacaaatggt acactcgag 329

```

<210> 801

<211> 436
 <212> DNA
 <213> Homo sapiens

<400> 801
 gaattcgcgg ccgcgctcgac gtagaacagt gattactgga ggctgggagg aaagggaggt 60
 ggatatggag aggttggtta acagatacaa aattacggct agataaaagg aataagttct 120
 agtgtctgtg gcactgtagg gcgactagag ggtgtagtta acaatttact gtatatcttc 180
 aaatagctag aagacaggat ttctaacttc cccaacacaa agaaatgata aatgtttgag 240
 gtgattaccc tgatttgatc attacacact gtatacctat atcagaatat cacactgtac 300
 cccataaata tatacaatta cctatcagtt ttaataaat aaattttcaa aaaccacaat 360
 atttttttga atgagactct acctaaaatt ttattatggt ctctctttat ggccttcttt 420
 tgggaaaaca ctcgag 436

<210> 802
 <211> 725
 <212> DNA
 <213> Homo sapiens

<400> 802
 gaattcgcgg ccgcgctcgac atgcacttta gggttggttt tgcacttctg atagtatctt 60
 tcaaccacga tgttctgggc aagaatttga aatacaggat ttatgaggaa cagaggggtt 120
 gatcagtaat tgcaagacta tcagaggatg tggctgatgt ttatttgaag ctccctaact 180
 cttctactgt tgcatttga gccatgcaga ggggaaattc tcctctactt gtagttaacg 240
 aggataatgg ggaaatcagc ataggggcta caattgaccg tgaacaactg tgccagaaaa 300
 acttgaactg ttccatagag tttgatgtga tcactctacc cacagagcat ctgcagcttt 360
 tccatattga agttgaagtg ctggatatta atgacaattc tccccagttt tcaagatctc 420
 tcatacctat tgagatatct gagagtgcag cagttgggac tcgcattccc ctggacagt 480
 catttgatcc agatgttggg gaaaattccc tccacacata ctgcctctct gccaatgatt 540
 tttttaatat cgaggttcgg accaggactg atggagccaa gtatgcagaa ctcatagtgg 600
 tcagagagtt agatcgggag ctgaagtcaa ggtacgagct tcagctcact gcctcagaca 660
 tgggagttac tcagaggtct ggctcatcca tactaaaaat aagcatttca gactccaacc 720
 tcgag 725

<210> 803
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 803
 gaattcgcgg ccgcgctcgac ttctaaaatt ttatataaat agaatcatat agtaagtact 60
 tctgtttgctt ggtcctcatt actcagagta attgttgata ttatccatg gtgaagcatg 120
 tgtcagagtt tattcctttt tattgctaag cagtgttcca ttgtgtatct gttttactac 180
 agttttgtcca ttcaactgtt ggtggaccct gggttgttct tggttttggg ctctacacct 240
 agaagctcct atgaacattt gtgtacaagt ttgggtattg ttaaagttta actcgag 297

<210> 804
 <211> 701
 <212> DNA
 <213> Homo sapiens

<400> 804
 gaattcgcgg ccgcgctcgac aaaagggtta gtataagaaa atattgcaa cacattaata 60
 cagttgtatg gtgcaggaaa agaagattgg aaaaagacca aaacacactt ctccagcaac 120
 actccatcag ctttttaaaa tttagagcta tctgctaatt ttttccctct tccttctcaa 180
 taaatgaac aaacactggg cagctgcagg ttctcccaa tcagtgtctt ttatgtaaaag 240
 acagtaacat gcaaacactt ttagtgtaca tccctcattc acagtgtaaa gcaggaaatg 300
 gtgtgggaga tgtgagacca ttctgaggtc agcगतagcc caaaggctct gcagtattcc 360
 ctccaatggc caaggattcc gtgtgtcacc tgcaggagtg agtaggctcg ctgtatttct 420
 tgtaactgct ggggtgttaca aaataagtta caatgtttta cactttaaaa aaaaaacaga 480
 aggaacattt gctttattgg ttacttacta gtttagcttc taggttatgg cacagcatgc 540

taaaaaatca tgtgttttaa agtaaatgtt ggtaaaatgc tggcatctgg tccatttggt 600
 ttgatgcatt ttcacttctg tggatcatagg aaatggactg gtctaaagag agtgaggcac 660
 aacacaagca gggcattagt ttgaatagga agtctctcga g 701

<210> 805
 <211> 269
 <212> DNA
 <213> Homo sapiens

<400> 805
 gaattcgcgg ccgcgtcgac ccaaccgtcg attgaattct agacctgcac tccagcctgg 60
 gcgacagaac aggactccgt ctcgaaaaaa ataaaaataa ataaaaataa atatatatag 120
 tgcagtatca aaggaaaaca gcaaaacttt aaatatcttg tttgaaaatt aactgttttg 180
 taggttaaga gcacagtgtc gcagcttttg acttaacata attaatctag atgttagcca 240
 tacatacctt ttccatctgc cttctcgag 269

<210> 806
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 806
 gaattcgcgg ccgcgtcgac cgtcgattga attctagacc tgcctcgagt gttgtgtggc 60
 catgggggat aggaggttgg ctgttatcgg cctctgctcc tgtgggtttt actccttctt 120
 ggctacctg ctgctcttcc agtctccatt cccacacttt tctctctctc gcagccactg 180
 tttgatgctg gactgcagga aatatgtcac cgatgcagga gtgtccaggc agtgttccca 240
 ccaacagtac actctcgag 259

<210> 807
 <211> 216
 <212> DNA
 <213> Homo sapiens

<400> 807
 gaattcgcgg ccgcgtcgac ggacagggga ctgggcagaa aataatattg tagaaggtag 60
 aacagcattt ctttgggagg atttatcttt ttaagtatat agtggctctt taccactatc 120
 ctacaacagg ttgcaggaca aataatgtat ttaaatcttt gggggagtct ttgtgtaagt 180
 cagaccttat tcattttcat tccaacaacc ctcgag 216

<210> 808
 <211> 705
 <212> DNA
 <213> Homo sapiens

<400> 808
 gaattcgcgg ccgcgtcgac acctgcctct aaataaataa ataaaaaat aaataaaaat 60
 aaaggcaaat ctgatcaagt catgctcttg gataaaagct ctaaaggctt caccctttgc 120
 tttaggagaa tgcttgcccc agcctggaag atccgggect ttccctctcc ccaagccctt 180
 ctctccagat ccaccctctc cactgattc ctcccacaga tcaactgaga tataaataca 240
 actctccacc taaaaatatt acgggtagaa gtaacactga ggatggctag aaatggatat 300
 aagaaaaactc attattgact aaaatgcaca aaagaatcaa atcttgacca cgaatctttt 360
 tttttgggtt taatttaaat cttccaaaat ggaatggggt taccagtc aacacacaat 420
 ggcagaaact cgtgtcaaga gcctgcagcc cccacactga tggatgcctc caatctcagc 480
 agcagaatgt gtacggaatc gatgccgatg aaaacagttt cagtaaaatt acaaaagaat 540
 gaaaaacatg gacatttgtt taactgtact acaggggaaa acaaaaaatc tgatcaaaga 600
 attaagtttg atgaatagag ttcaagcttg agaacacctt cttaaaaatc tttcagggtt 660
 agtatgtttt ggtttaaaat gtttgcattc aaggttctcc ctata 705

<210> 809
 <211> 230

<212> DNA

<213> Homo sapiens

<400> 809

```

gaattcgcgg ccgcgtcgac gtgagctaaa gcagtcgaatt ttttcattgga gcaccacgaa 60
agaacaaaag acatataaat tatggttatg caaagtaaaa tataacaacat tttcttttct 120
ctcctttttt tttttttttt tttagacag gtcttgcctc gtcacccagg ctgcagtga 180
gtggtggtgc catcaactgc caacacagct tctatctccc aggactcgag 230

```

<210> 810

<211> 544

<212> DNA

<213> Homo sapiens

<400> 810

```

gaattcgcgg ccgcgtcgac cgtcgattga attctagacc agcccgcca acacagcgaa 60
accccgcttc caccaaaaaa atacaaaaac cagtcaggcg tggcggcgcg cgcctgcaat 120
tgcaggcact ccgcaggctg aggcgggaga atcaggcagg gagggttgag tgagccgaga 180
tggcagcagt atagtccagc ttcggctcgg catgagaggg agactgtgga aagagagggga 240
gagggagacc atggggagag ggagagggag agggagaggg agaggaccgt ctgcttttaa 300
aatgggaaat atcagtattt gaggaatga agtcaaaatt gacctaatga gatgttgata 360
cgattctttt cctgaagctt taatacattt acatttttat ttttgaaac tcactttcat 420
tctgtacatt tatactgtac ctattttgtg ttgtcagatg tacgtgtgtg agttactgat 480
tttcttcttc acacatggag acacttggca gccaatcagc ccaccaggaa atagggtccct 540
cgag 544

```

<210> 811

<211> 714

<212> DNA

<213> Homo sapiens

<400> 811

```

gaattcgcgg ccgcgtcgac ccccaacctg cccgcatgcc ctatatctca gacaagcacc 60
ctcgacaaac cttggaagtg attaaccttc tgagaaagca ccgggagcta tgtgatgtgg 120
tgctagtgtt gggcgccaag aagatatatg cccatcgagt ctttttgtca gcctgtatgc 180
cctacttccg agctatgttt acaggagaat tggcagagag ccgtcagaca gaagtagtga 240
tccgagacat tgacgagagg gctatggaat tactgattga ctttgcgtat acctcccaga 300
taacagtaga agagggcaat gttcagaact cttctgccag ctgcttgccct cctccagctg 360
gcagaaatac aggaagcctg ctgtgaattc ttaaagagac aattagatcc ttctaactgc 420
ctgggcattc gggcttttgc tgacacacat tcatgtcgtg agttgctaag gatagcagac 480
aagttcacc caccataactt tcaagaggta atggagagtg aagagtccat gttgcttcca 540
gccaatcaac tcattgatat aatatccagt gatgagctaa acgttcgcag tgaagaacaa 600
gtgttcaatg cagtgatggc ctgggtcaaa tacagtattc aggaagacg tctcaatta 660
ccccagggtc tgcagcatgt tcgtttgcct ttgcttagtc ccaagcccct cgag 714

```

<210> 812

<211> 309

<212> DNA

<213> Homo sapiens

<400> 812

```

gaattcgcgg ccgcgtcgac acagaaaagg gcttgggttg acaaatttac aagggttgtt 60
aaacatacaa agtgccaaaa gcctatagtc attcattcta ttacttgttg gcaggtaaat 120
attttgtgga aagtatttgt ttatttttat ttttactttt tgagggtggag tctcgccctg 180
ttgcccagge agcagtgcag tggcgagtc tcggctcact acaacctctg cctcccgggc 240
ccgagtgaatt ctctgtcttc agcctcccaa gtagctggga cttaaaggcat gcaccaccat 300
cacctcgag 309

```

<210> 813

<211> 178

<212> DNA
<213> Homo sapiens

<400> 813
gaattcgcgg ccgcgtcgac gtgcattgaa ttctagacct gcctcgatga atcccgcaac 60
ctttccaaac acgtctcatt tattagtctt aatattcttt agtagattcc ttagtggttt 120
tttttgtttt ttgttttttt ttaataatat aaaggatcat gtcattctga aactcgag 178

<210> 814
<211> 342
<212> DNA
<213> Homo sapiens

<400> 814
gaattcgcgg ccgcgtcgac aaccttcttt tgtttgtcag cagccaaggt gtttccagga 60
agttcagaga gaacagaatt taagaagtgc aacatggcca ggggctgcct ctgctgcttg 120
aagtacatga tgttctctct caatttgata ttctggctct gtggctgtgg gctgctggga 180
gtgggcatct ggctctccgt gtccaaggc aactttgcca cttctctccc cagcttccct 240
tcgttgctctg cagccaacct ggtcatcgcc ataggcacca ttgtcatggt gacgggcttc 300
ctcggtctgcc tgggggcat caaggaaaac aagttctctg ag 342

<210> 815
<211> 668
<212> DNA
<213> Homo sapiens

<400> 815
gaattcgcgg ccgcgtcgac gtgtgccttt gctgttgaag agtccgaaa cttaatcaaa 60
aatagatgtg agggttctgc tgcactgtac tgggtgtcta aactatacta gacgtggggc 120
ttagaagagc tcccctttcc acatagaaaa gctctatggg gttggatcac tctctacaga 180
ttcttctttt gaatccccatt ggtctctccc gttgttctct acaccatag ccacagagaa 240
ggagtcacaa agtgaagccc tcagcttgtc cttctctaag ctctctgcag cctcagtggc 300
ctcatctgaa cagtgcagat gatagttacc acttcatagg gctgcctaga aaacaaaatc 360
cagtgtgtgt caaatcacct catagcacat cgtagatgct caagaaagt ggctgggtgt 420
actcacattc tgctgcagcc cctaggctga ccccatctct gacagtcctc caacttggtc 480
tctccctgct ccttgctccc ttctctctag ggtttgctga gacgagagg agagaaagg 540
tgggtgggtca gtcacccctg ctggtatga cagggtgcag tcatgggtgg aaaggagaca 600
gcactactct taagcactct cctgagattc atgatggaca ctctccagc aacgcagggg 660
ccctcgag 668

<210> 816
<211> 344
<212> DNA
<213> Homo sapiens

<400> 816
gaattcgcgg ccgcgtcgac ggcagatggt gtgaagaggc attgtgagct aagtgtatag 60
gtgaggtgag ttaataaaa atgtaaatc tggcctaaaa tgggtaggcc tcatggtatg 120
caggaaaatt taattaagtg gccaccactc ttcccccat caattggatt ttcttctgcc 180
acagtaagaa gtcattccagg atatgctggg ggggcactta gatgagtctt ggtccgttga 240
gtgttttcat ttctgatat tctaattgcc agcgaggaa cttgaacgta agaaaatcat 300
gtgaaacttc atcaaaaatt aataatcacc aagcaggact cgag 344

<210> 817
<211> 163
<212> DNA
<213> Homo sapiens

<220>
<221> unsure

<222> (135)

<400> 817

```
gaattcgcg ccgcgtcgac gggggggcct ttattaatat tgtcacacca caccacacca 60
cacacacaca ccacaccaca ccacaccgtt tgaaagctgc atcaagctgt gcacaaacat 120
gatcgacgtg ctgtntttgt taagcctccg ccttcccctc gag 163
```

<210> 818

<211> 319

<212> DNA

<213> Homo sapiens

<400> 818

```
gaattcgccc aaagaggcct aaacaaggga tttgaacgtt tttcagcaca aaaggataac 60
ttccgagtgg tgggtctgtac gcatactagc aaaggtaatg gtgatctagc aaacaaaatt 120
ggtttctgca gttagaagtg agcaggagca cttgtattat agtattttaa taatcctggg 180
taatctcttt ttaagccgag taaccctccc agattttgcc tttttattat tgaggctggc 240
tttattttct tctacttttt ttcccgtttt atagcagtta attatttttg tgattattat 300
gcaagaagca ttactcgag 319
```

<210> 819

<211> 393

<212> DNA

<213> Homo sapiens

<400> 819

```
gaattcgccc aaagaggcct acagagaact gaatagatga ggggtgttga aagaaacgtt 60
tttgggcatt ggttaaaggc atgcttgagg gattctaagg aggctggtgt gtggctggaa 120
ctaagtgtgg ggatgagagg tactaggaga tcacatgaga ccatgtaggc cactgttagc 180
agtgagtaca atggtaaatg agtagaagga ttttgaacag caagattgct atgatcttac 240
ttaacactta taaaagagtc actcctatga cttttgtagg gtgagtaagc tatagtaata 300
tcaatagaaa tgaacatgct ttgcatttgc catgtgtcag gtattattat tattatttat 360
tttacttttt tttgagatag ggatccactc gag 393
```

<210> 820

<211> 270

<212> DNA

<213> Homo sapiens

<400> 820

```
gaattcgcg ccgcgtcgac gaaggataag aacaggtcgg agatgtccgc ccagaggtta 60
atttctaaca gaacctccca gcaatcgga tctaattctg attacacctg ggaatatgaa 120
tattatgaga ttggaccagt ttcccttgaa ggactgaagg ctcataaata ttccattgtg 180
attggatttt gggttggtct tgcagcttcc gtgattttta tgttttttgt gctgaccttg 240
ctgaccaaga caggaacccc acacctcgag 270
```

<210> 821

<211> 163

<212> DNA

<213> Homo sapiens

<400> 821

```
gaattcgcg ccgcgtcgac ctacatagtt ctttctgaat acaaatctca gataaaacac 60
tatctcagtg atcaaccagg ttaagcaacc tttttagtgc ctcaattatt ccatttgtaa 120
aattgtaata atgatagtac taacctataa gattattctc gag 163
```

<210> 822

<211> 200

<212> DNA

<213> Homo sapiens

<400> 822
 gaattcgcgg ccgcgtcgac attagaagct ctagtgagtg aagtttggtt atactttgaa 60
 aatatactaa gatggaacca ttaaaaacag taataatttt tattatcttt catttggtca 120
 agaatgataa aaagcatcaa ctagaaggga aacttcaaga taccagatgt cgattgacca 180
 cccaaaggca agatctcgag 200

<210> 823
 <211> 284
 <212> DNA
 <213> Homo sapiens

<400> 823
 gaattcgcgg ccgcgtcgac ccaatacaca ccacactgtc tacttcagtg gggaaatacc 60
 aaccctcctt caccaatcca gaaagaaatc tgtaaatatta gattcctcga cagtgtagaa 120
 acctagttct gtgtagtatg gttgttttgg acatttgtaa atttatcttt aaagtcttat 180
 ttgtatatat ctttttgaga caggattttg ccctgtcagc caggttggag tgcagtggtc 240
 tgatcatggc ccactgcagc ctcaatcccc caggctatct cgag 284

<210> 824
 <211> 275
 <212> DNA
 <213> Homo sapiens

<400> 824
 gaattcgcgg ccgcgtcgac tattgtggta ctgtttataa tttattggtg ctcttaggac 60
 cttagtggga gttggctact ttttggttac aactaagta gctccagact gttttaaaaa 120
 tgcttgcttc tgctgtatat aggtttttat ttatttggtt gtttttggtt ctgcttttgt 180
 ttcttcctct ggtgttgggt gacattttta actatcatag ataccctttt ctaaagcagt 240
 ttctatctcc tgggtccacc cccctccacc tcgag 275

<210> 825
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 825
 gaattcgcgg ccgcgtcgac catctgggta tttggaaaca agtggtcatt gttacattca 60
 tctgctgaac ttaacaaaac tgttcacctt gaaacaggca cagggtgatc attctcctgc 120
 tggtgcttct cagtgtcttc ttccaatat agatgtggtc atgtttgact tgtacagaat 180
 gttaatcata cagagaatcc ttgatggaat tatatatgtg tgttttactt ttgaatgtta 240
 caaaagggaat ctcgag 256

<210> 826
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 826
 gaattcgcgg ccgcgtcgac agagcttaaa ggetggatta tgcaataact aacttttttt 60
 atttttagtga aaacgattca aatttcaaca catttaataa taaatgagaa aatttcagta 120
 gataagcata gaacaaatgt aaaagaaact ctcttcaacc aagattgtac tattgtatgt 180
 ggtctaaagt atagtaatat ttttactcag aatgggtgaat taaagatact gggagcttct 240
 gaaatgcac ctattccaaa aatgggggta ctcgag 276

<210> 827
 <211> 169
 <212> DNA
 <213> Homo sapiens

<400> 827

gtccttgtgc tgaggagaag gatgtttatt ctgatatcca ttagatgaaa tgttctgtaa 60
 atatctatta ggtccatttg ttgtacagta cagattaagt ttgatgttcc tttttgattt 120
 tctgttattg gaagatctat ccaatgctga aagtggggcg agtctcgag 169

<210> 828
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 828
 gaattcgcgg ccgcgtcgac catcaagtct acaagaaaat taaaggagtc tttgattaac 60
 agtgggtttt caaacaacc ttgtgtacaa cttagtaagg aaaaagtcca gaaaaaaagc 120
 tacagaaaac tgaagactac ctttgttaat gttacttctg aatgcgctcg ag 172

<210> 829
 <211> 385
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (251)

<220>
 <221> unsure
 <222> (264)

<220>
 <221> unsure
 <222> (274)

<400> 829
 gaattcgcgg ccgcgtcgac gctgctctga tgacttttaa aaactgattt gtagggatcc 60
 tttgtgtaaa cactaatgct tgatctgata tatcaaattg tgtgaatgct taacagacca 120
 agcatttagta ttacacacatt catgtgcatg tgtacatgtg tgtgtgtgtg tagtatctta 180
 tgcattcttac cctagaggat gccactcacg taactttatt tttattatgt atataataat 240
 cagggtacac natatctgtt tttntgaaaa gctnactaat acagcagaat ctatctactt 300
 tcatttcctt agtttgaagg tgagtataca aaattcacaa tctctacttt gaataatctt 360
 gaaataaaac atgagattac tcgag 385

<210> 830
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ttgccttttt attttgttgt ttgtttcctt tgccacgctg aagcttttta gtttgagcta 180
gtctcattta tttttacctt tgtagctaag ctttttgtgt attacccaaa aaatcattgc 240
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<212> DNA

<213> Homo sapiens

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tgtgcataat tatttacaca catatatcca tgtgtactcg gtctcaatat caaaatattt 180
cttacagtta cttatgggtc aactgtttga aatacttgta ttttaatttt ctggtgtggc 240
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<210> 833

<211> 383

<212> DNA

<213> Homo sapiens

<400> 833

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ttccccctac tgtttagtct ttttgggagg aaaaagaccg gaaattttgt gtcattttaga 180
tgttcattaa cctggtcgca ttcatacta gtccatttca gctccgagga tgtttaattt 240
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<212> DNA

<213> Homo sapiens

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<212> DNA

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acctcataat gttatttatt ttttttctct ttagtgggca gttttatctg gcaatagcaa 180
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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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aggagacttt tactgaaact cactccttca acctgttttt cttttattgt cgtacttggt 180
acctgtcttt tatggcttgc tgtccttatt tcaactgtatg ctcactctaa tcttttagga 240
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<212> DNA

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gggaaacagt tgggaagaaa aatggtacag cagttacaag aggatgtgga catggaagat 120
gtcctttaa aatctctgta accatttctt ttatgtacat ttgaaaatgc cctttggata 180
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<210> 840

<211> 146

<212> DNA

<213> Homo sapiens

<400> 840

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<210> 841

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<212> DNA

<213> Homo sapiens

<400> 841

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gggtgaacga tgatcagcct ctccctattcc cgaatctcct tggctgacat cgcccagaag 120
ctgcagtttg atagcccca agatgcagag ttcattgttg ccaaggccat ccgggatggt 180
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<210> 842

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or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

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170

171

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173

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or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.

6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.

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 <212> DNA
 <213> Homo sapiens

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 gtgagttagt tgtttctgtt ggtcaactga atctcaggta tctttggtct tcctttctct 120
 tacaatggaa gtaatgttca ggacctatct gagaccagtc ccttgtctac tgctcttcat 180
 ccttttttct cttgttttct caatggcttt actccttctt ctcttcaaca gcatcagctc 240
 tgccccctct tactcttttg caaagacacc caatctogag 280

<210> 843
 <211> 361
 <212> DNA
 <213> Homo sapiens

<400> 843
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 gagtgttcat ttttttctta ttgctgatac ctgtagcctg agaatgttac ttctagcagt 120
 tgtcttcatt ttgtttatct ttattaatgt agaaaattat caaaccata gaaaaattga 180
 gagtagagtg aatacccata tgccccctgt cttggttctc cagctattaa caccttgta 240
 tattttctat cctctcttcc ctctcttact ctttcttctt tctctctctt tcttctcttg 300
 tctctctctt ttgtctagac catgtgacac ttcaccaaca tataacactt cactcctcga 360
 g 361

<210> 844
 <211> 121
 <212> DNA
 <213> Homo sapiens

<400> 844
 gaattcgcg cgcgctcgac gggagacaaa gaaatatcga aagcaagtaa agaaaaaaaa 60
 agacaccagt gatcaacaga ataaagccag aatgagattg aagtagaaaa cttggctcga 120
 g 121

<210> 845
 <211> 366
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (75)..(76)

<220>
 <221> unsure
 <222> (97)

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 ggtggggng tagtnncttc ccagttggcc agaaaanagg gccttgaga ccccttagc 120
 attttttccc ttttttctt tccttctctt ctacttcttt ggggagcccc ttgtgttttg 180
 gagtctgact ggagtctctc atcctggggc ctgctccatc catccctctt gggcgccaga 240
 ccttccatcc aagccctgtg tctttccata gtcaggggtc ggccttgcct ctattccaag 300
 gggcactcag tacacattcc ataaattagc tgggtgtccc tgcaagccca ccccatgaaa 360
 ctcgag 366

<210> 846
<211> 183
<212> DNA
<213> Homo sapiens

<400> 846
gaattcgcgg ccgcgtcgac tggttctttt atagctaata aatatacctt tatctggctt 60
taagattttc tctaatactt ggttttaagc aatttggtta tgagggtgctt tgatgtagtt 120
ttatgtttct ttttattatt attattaaat ggtgtctcac tctgttgccc aggcctactc 180
gag 183

<210> 847
<211> 191
<212> DNA
<213> Homo sapiens

<400> 847
gaattcgcgg ccgcgtcgac atcctgggtc ttgcctgtaa tatcaatcaa ttgtttcacc 60
ttctctctaa agtcagcatc attatgggtc gaaatcatct gtgcaagtct aatttgttct 120
gcagtggcct gtggccgctg cttgtgtctgt gtctgggttt ggttttgagg ttgttcccag 180
tccccctcga g 191

<210> 848
<211> 207
<212> DNA
<213> Homo sapiens

<400> 848
gaattcgcgg ccgcgtcgac gtcacctcaa gcatttatcc tttgtgttac aaacaatcca 60
gttatacttt tttagttttc ttaaatgtac gattaaatga ttattgacta tagtaaccct 120
gttgtgctat caaaaatatt agggcttatt catttattca ttcaattttt ttggtaccca 180
ttaatcatcc ctacccccct cctcgag 207

<210> 849
<211> 235
<212> DNA
<213> Homo sapiens

<400> 849
gaattcgcgg ccgcgtcgac ggaattatct agtccccaga ttgatcatct cccctggcaa 60
cgtgactctg ttttttgtgt gtgtttccat gctgactagt cccctactgt taatatact 120
actaattagg ctataaccag gtctttcctg gcctgagaaa tattctctta aaatgacctt 180
tgttttaatc tcattcatga tgttgatttt ttttcaatgt ggtgctgggc tcgag 235

<210> 850
<211> 205
<212> DNA
<213> Homo sapiens

<400> 850
gaattcgcgg ccgcgtcgac cctaaaccgt cgcttgaatc ttaaaaactt ttatattcct 60
tgttcataat tgatctgaca gataacagtt tgttaaaata ataatagtga ccatgtattc 120
gattatgctt ctgtgggttt gtatatgtgt gtgtatctat acatgggtact taggtataag 180
tgaaatgaat gacagcgatc tcgag 205

<210> 851
<211> 221
<212> DNA
<213> Homo sapiens

<400> 851

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 caagactata caaattgtcc tttttaatgt tctctcttct gctatcccta gttggcagtc 120
 ttcctcttta caacctgctg aaagtggaag acctccagtt ttcctttaat tcttcagcaa 180
 accaccaact atttatatgtc tttttccag aacaactcga g 221

<210> 852

<211> 254

<212> DNA

<213> Homo sapiens

<400> 852

gaattcgcgg ccgcgctcgac ctaacaatga agagtcaaga aaaagctaatt ttaggagaaa 60
 atatggagaa gtcttggtgca agcaagggaag aagtcacaga agtcagtatt gaagatacag 120
 gtgttgatgt agatccagaa aaactggaaa tggagagtaa acttcataga aatttgctat 180
 ttcaagattg tgaaaaagag caagacaaca aaacaaaaga tccaacccat gatgttaaaa 240
 cccccacact cgag 254

<210> 853

<211> 247

<212> DNA

<213> Homo sapiens

<400> 853

gaattcgcgg ccgcgctcgac gtcatttgac aacatccctg gcttttggtt gtttcttct 60
 gggtagagac aaatttactt tccatttctg ataacaacgg agtcagtcct cctgctgcc 120
 gaggattttt tgaacacgcg tgaatactgc tcttcgcat ttctgagaga gggcagaacc 180
 gggtcacgtg gttgcttgac agagggccat gataactgtc tacagatatt taaagggtgt 240
 actcgag 247

<210> 854

<211> 253

<212> DNA

<213> Homo sapiens

<400> 854

gaattcgcgg ccgcgctcgac aattagtgtg catcattaaa ttatcaaata agtataaatt 60
 agtactcttc tttttctgga taatagaagg atcttagaac actttaatto catttatctc 120
 cctcacagtt tttatgctat attgccatct acttacatc ttggtaaaatt ttaaacttca 180
 gaagacatta ttattattgt tgtttgaaca gttaatatat attgagagtt actcatatat 240
 ttgccacctc gag 253

<210> 855

<211> 318

<212> DNA

<213> Homo sapiens

<400> 855

gaattcgcgg ccgcgctcgac acctgcctcg agcctaggct gctccttttc acctaatata 60
 cccagtttat aaatgggact cagttataaa gtttaggtcc acctcctcca ggaaattttt 120
 tcttgacacc tcttctctcc caatctcggt tgggtactct agcattgtgc ttccacctt 180
 tgcacagagc aatcatcatg tttaccacat ctactattaa cataattgtt tctgtgtttt 240
 tctcctccac aagatttatt ttttttagat gaggtgttgc tgtgttgccc aagctggact 300
 tgaaccctca ggctcgag 318

<210> 856

<211> 249

<212> DNA

<213> Homo sapiens

<400> 856
 gaattcgcgg ccgcgtcgac aggtttcagc ttcttctcga ttcaatcttg ggtggttgta 60
 tgtttccagg aatccatcca tttttttaa ttttttttag ctttttttagt ttgtgtgcat 120
 agaggtgttc ataacagtat ctgaaggctt ttttgtatta ttgtggagtc agtggtaatg 180
 tcttctttgt catttctgat tggatttatt tggatctact ctcatttttt ctttattagt 240
 ccgcctcgag 249

<210> 857
 <211> 212
 <212> DNA
 <213> Homo sapiens

<400> 857
 gaattcgcgg ccgcgtcgac aggtttccaa tcaatataaa tatatatata tatatacaca 60
 cacatatata aaaagtataa tttttctatt ttgttttttg gttttaattt gcagagattt 120
 gctgccagga atcaattttg agggttcaga ttttagcttg aagaaaaaaa agaaacatac 180
 atccttcagt ataggagatg agggcactcg ag 212

<210> 858
 <211> 426
 <212> DNA
 <213> Homo sapiens

<400> 858
 gaattcgcgg ccgcgtcgac caaaaaacaa aaaaagaaaa tcttagaaaa agaaaataaa 60
 ttgtaaatatt tcagaatatt tgttggggag gatattgttg ctcaagaaat acatactgag 120
 aacttaccat tgatgctaga gattgaattt ccccatgtct acatgaaaaa tgaatagaat 180
 ataaacattt taaattgagc catgtctatc tgtattatat ttcttttata gaaattcatg 240
 gaaatggtat attttaactg aattattaac actggggaca ataggcttta atcattatct 300
 aatacctgta cgttgttttg aaattcatag cccaccacca ttaatttcaa aattgggttc 360
 ttactcaaag agtgatgaaa aggcaccagt accaaatggg ctggccaaaa tgctacatgc 420
 ctcgag 426

<210> 859
 <211> 215
 <212> DNA
 <213> Homo sapiens

<400> 859
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 cctcaggaaa actaagtttt tctctgctgt ttttttgctt gagagagcta taactgtaat 120
 agacttatat ttctgaacat tttagtgtct gccaatattt ggtaaatatt atgtttccta 180
 tatttgaat gaacattctt cttccggtac tcgag 215

<210> 860
 <211> 672
 <212> DNA
 <213> Homo sapiens

<400> 860
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 tgctgcagtt tctttccaga gaacctgtgt atgtgtaaaag ctgtacaggc gtgggtacac 120
 cacacagcct gtcttgcaat gtggactgtt gagttactag tacatctaga attctcctgg 180
 ctattccagg ctgcattgtt accttaacct tccctgtgat gtcttcatgc cgttgtcttc 240
 ttatgcaaga ataagactca aatgactcca gaaagctaca cttcctgttg tgagtatatg 300
 atatccattt cctacatag ccaactaacat cagggtttta caattttatt tatttcttgc 360
 tactttaaga aatttttgtg gtgaaataca tataatagaa gttgactatc tgaatcattt 420
 ttaagtatac attcagtagt gttaagtatg tcgccattgt tgtacaacca atctccagaa 480
 ctttttccatc ttgcaaaaaca aactctgtac ccattaaata acattaaaca ttccattccc 540
 tccagcctca gcaaccccat tctactttct gtttctgtga gtttgactat tccaagcact 600

tcatatcagt taaatcatga agtatttgtc tgtctgtgac tggcttattt ctctgagcac 660
 agtgcctcg ag 672

<210> 861
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 861
 gaattcgcg cgcgctcgac ctacaagttt ggacttgttt ctggaatctg cctacttgtt 60
 caaaatatta atagcatatg atattataaa ttaatgatta gttttatgta ttgcagaaaa 120
 tatttaatta tgctgatttt tcctaataata tttttatggt tacaatttga cttagtaaaag 180
 gatgaaaaca aagtagcaaa actcgag 207

<210> 862
 <211> 171
 <212> DNA
 <213> Homo sapiens

<400> 862
 gaattcgcg cgcgctcgac taaacacatt atgatttttag taagacatat gcattattta 60
 gacatgtact tcttaatat aaagatagta tttgtaattg gttttgacct tattcagact 120
 atgggttagag tacatactaa gcaagaatta aaggctttcc attttctcga g 171

<210> 863
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 863
 gaattcgcg cgcgctcgac gtgttttcag aaagagaaaa catctcctgc aaagatctgt 60
 aggttgcacc ttgaaagaac aagacaaaac caaacttcaa gactatcctc ctgtttaaaa 120
 ggagactagc aggtgtcaaa gagaggcggt aaagctcatg atacctgatg taatcagtgc 180
 cctcctcctc ctggcgcgag caggatgcct tcccttcaat gactcccaac tcgag 235

<210> 864
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 864
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 tctttttact gttctcttac cccctttcac tctcacttca cttcctccat gctgctgtac 120
 taccagttagc tcctcttacc aagagggtct atggagaatg tggcttccca gaaatattga 180
 tgtcccatcg tatagggtt tttctaaagg agacccact ttcaccaccc acaaccatat 240
 acccccgaca tcgag 256

<210> 865
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 865
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 tcctgttatt caaggatga agtacaacca ctttagccca gtgctcaagg ttatactttc 120
 cttactctgt accaattctc tagtctcacc atcgagggtt gcctgcggcc ctccagaccca 180
 tcacatgcat tcctgcctca gcgtctccct tctgtgcaac acctgtcctt ctcctggcac 240
 taaccaaaagt tcaccattcc tcgag 265

<210> 866

<211> 262
<212> DNA
<213> Homo sapiens

<400> 866
gaattcgcgg ccgcgctcgac cattttcttt ggctgttatg tgtaaacagt tcctctgtta 60
ctttgcatgt tatgttttat ttttctcttg cttgacaact tgtgccagag aaacattttt 120
ctaccccttt ttgtctactc ttccaacctg tcaaactgtt gaattttcct tctcttttca 180
tagtctctgc atttctaata atgttcacta tagttcagtg ctgcccaata gaactttctg 240
ctgcggggcg ggggtgctcg ag 262

<210> 867
<211> 283
<212> DNA
<213> Homo sapiens

<400> 867
gaattcgcgg ccgcgctcgac atctacttct agcttttttc ctattttggc tcgggcggtt 60
ggttcctatc ttcccccgac tgcccgcgct cacagtcctg cttccttgtc ttttgcctca 120
tatcgtcagg tagctagttt cggttcagct gctcctccca gacagtttga tgcattctca 180
ttcagcccaag gccctgtgac tggcaacttg gctgactgga tcccacagtc ggcgtcttct 240
cccacaggac ctccccagaa cccaccttct gcaccggctc gag 283

<210> 868
<211> 219
<212> DNA
<213> Homo sapiens

<400> 868
gaattcgcgg ccgcgctcgac aaaacgtcag aacatttggg gttttaaact gatttggtgc 60
tccttatcca gcctagacac cagtaactct tgtgttcacc aggacccaga cccttggcaa 120
gggataggct cgttggtgac attgtgaatt tcagatttct tttatccact ttttttgcta 180
tttattttaa tggtcgatca acttcccaca acactcgag 219

<210> 869
<211> 258
<212> DNA
<213> Homo sapiens

<400> 869
gaattcgcgg ccgcgctcgac gtaatacaga agggagtagg taaaaaatc tgaattctg 60
aaaaagtatt agtataaact ttaattagta ttcatctttt aaatgttttt ctggctctgt 120
ccactgaaga agcttagaaa taatgaccaa atctgtttaca tccataccat tgtgatctta 180
aaatatcttt ttctactaga agaaatggct ggttgacaaa attgcttatt ccccatgggg 240
caggaagtgc acctcgag 258

<210> 870
<211> 298
<212> DNA
<213> Homo sapiens

<400> 870
gaattcgcgg ccgcgctcgac ctgcatttta aatatattgg ggacagattg cgctgagacc 60
tggttatgag caagccaact ttttgaatct agagaatgga attcttaggt ttatatctct 120
gttaagaaat actataaata tgactcttat gagaagactt tgttgctctg tagtgtttct 180
gaatactgta tttgttggat tgatcaaggc tatttttcaa aaagctctct gcttctctgt 240
tgtttggttg tttgtttttg agacagagtc ttgctctgtc gccggggctg aactcgag 298

<210> 871
<211> 150

<212> DNA

<213> Homo sapiens

<400> 871

```

gaattcgagg ccgcgctcgac cgtccctctc tctgacagaa gccatataag gtccatgagg 60
gtagagattt tcttttttct ttgtgttaat tgctgtatcc tcagcacttg gaaaaagggc 120
ctggcacttt gggatgagcg aacactcgag                                     150

```

<210> 872

<211> 241

<212> DNA

<213> Homo sapiens

<400> 872

```

gaattcgagg ccgcgctcgac attgaattct agacctgcct ctagtgtgtg ggtgtgtttg 60
tctttttgtc ttccatcttt tggtttacat tttaatcacc tcaaaaaata tccctgcat 120
gtatcattca gcttctcaga gtttttgtgt ttttgtctgt gtatgtgtgt gtgtgtgtgt 180
gtgtgtgtgt gtgtgtttaa aaacattttt tcttttgtt aggccacatg ctacactcga 240
g                                                                 241

```

<210> 873

<211> 228

<212> DNA

<213> Homo sapiens

<400> 873

```

gaattcgagg ccgcgctcgac catgtctcgg tccctgtcac ggggtgtttt tttctcttc 60
ctctccctca gaagtctgcc catctacaa ggagatgtgc aggacctcc accccgaaca 120
ggtaactgcg tgccttcac ctccatcacg cagcctgacc ctgtgagccc ctctgtgctc 180
tgtggacctg tcacctgag ctccctcagtt gctgaaccac cctcagag                                     228

```

<210> 874

<211> 178

<212> DNA

<213> Homo sapiens

<400> 874

```

gaattcgagg ccgcgctcgac atattaactc aaaagaaata ggggtgatttt taaaggatta 60
ataaaattct gaaatgttaa gtagaagatt acattgtcta gtcttgatt tctcctctc 120
gttgctctct ttcattcaca cactctcagt ttctcatatt tgtagctcat tgctcgag 178

```

<210> 875

<211> 179

<212> DNA

<213> Homo sapiens

<400> 875

```

gaattcgagg ccgcgctcgac agtggctcgg caggatatat ctgatttaaa aaataggaa 60
cacaataata atagctgctt atgcttatgg agcattgcca tgtgctagat aggcaccatc 120
ctcagccctt ggcaggctcg agctccttta tttcttccaa tcaacactgt cagctcgag 179

```

<210> 876

<211> 214

<212> DNA

<213> Homo sapiens

<400> 876

```

gaattcgagg ccgcgctcgac caagatttta ccaaggccaa ttttagtagc tttgtttctg 60
ggtgattttg tctggtcaat atacagaaat aagaatgata atgaaagtga taatgatagg 120
aataataata ggaagagtag tgactttttg tctttgtgta tcaattcatt caacaaattt 180

```

gaccaagtgc ctgctacatg ccaaagcact cgag

214

<210> 877

<211> 436

<212> DNA

<213> Homo sapiens

<400> 877

gaattcgcgg ccgcgtcgac gtgcatgtcc caacaactca tctcaaatac taaattcaaa 60
agaaaaactg tagtrctcct cagcattagc actaatatg ggtacaatac atttctttta 120
aatgtcctaac ttatttaacc ccttcatttt aaactgcaaa ttaaagcatg tatttacata 180
tttatataca aaaaacttca aaaacaaatt aatccaaatc ttgggtccaag agtttccact 240
ttataagtgg tatggtacta tgctatatat atctctttcc aaaagtctct taggacttgg 300
taagttccaa atattcattc acaaatggtt cccctttaag cttaaatgaac catatacttc 360
atttctgagt aaattagagg aaatattaca gaacacgctt tgtacaatac agcaccacta 420
ctgagaaggg ctcgag 436

<210> 878

<211> 174

<212> DNA

<213> Homo sapiens

<400> 878

gaattcgcgg ccgcgtcgac cttatttatt actgaaataa tctaaactga ataaataact 60
ttttaaaaaa ttacattggc cagtattagg ttcttgatgc gtatttggtg ttttggttgg 120
actgctgggt tttttctctc cagtattgga tgcgttaacg gggatgcact cgag 174

<210> 879

<211> 229

<212> DNA

<213> Homo sapiens

<400> 879

gaattcgcgg ccgcgtcgac ctcaaaaaa aaaacaaaca aacatgttgg tcaaatttat 60
aattaaaagc acaatagtta ttggttgggt attgaataaa atcaggagtt ttaataatat 120
tggtgtggtg cactttgatg gatgggacca cagtatgaag gctgtagtaa tccagcatga 180
ggtgcccttt attttctttt tcagattcaa gagcaggcac gacctcgag 229

<210> 880

<211> 110

<212> DNA

<213> Homo sapiens

<400> 880

gaattcgcgg ccgcgtcgac atttatctga tcttttacag aaaaagtgtg ctaacccttg 60
ataacagata ctctaaaatg caggtttttc ttcttcaatt ggtgctcgag 110

<210> 881

<211> 239

<212> DNA

<213> Homo sapiens

<400> 881

gaattcgcgg ccgcgtcgac gtgacttggt taactgcac ttttgcacag tagttagtct 60
tttctgtgtg ggacaccatg ttggtagtgt ggaaatggtt tcttccatcc attgcctgcc 120
tttttagcttt gtcgatgggt ttctgttgaa aattttgggt cactgttaat gtgaacaatg 180
gttatgagac gagtgccatg agttctctgt tgcctgtcac ccagcccgcc acgctcgag 239

<210> 882

<211> 159

<212> DNA

<213> Homo sapiens

<400> 882

```

gaattcgcgg ccgcgtcgac ctgtgtggat ggactgagcc tagctaagtc ctgattcatt 60
ttgacttgag ttctctcagt gggaagaatg ggaagattt acagcttcgt cctggtcgcc 120
attgctctga tgatgggaag ggaagggtgg gccctcgag 159

```

<210> 883

<211> 121

<212> DNA

<213> Homo sapiens

<400> 883

```

gaattcgcgg ccgcgtcgac ggggtctctt gcttttgttc ctctaaaaac tggctctgcta 60
actttttaat attttcttca tgctgtgctc tcaattcctt catctgctgt ccacactcga 120
g 121

```

<210> 884

<211> 257

<212> DNA

<213> Homo sapiens

<400> 884

```

gaattcgcgg ccgcgtcgac cctagcttga atttgaaaca acagcacatc ttaatttggga 60
cactaaattt tcatcaaaaa tatttcattg atttagattt cataaattta cagttgaaaa 120
agtagatgta catatccaaa ttgtcccaaa catgcttaaa atttttccag tatgtatgtt 180
gttttaaaat atttatattt ttgttgttgt tgttgttgtt ttttaagatg gatttttgct 240
cttgtcaccc cctcgag 257

```

<210> 885

<211> 141

<212> DNA

<213> Homo sapiens

<400> 885

```

gaattcgcgg ccgcgtcgac gtctctctct gagctctatt tgcttcagtg caacatgaag 60
ttcatgaccc agtccgcctt tgagagggca ctccgattc tcaacgtggc cctcgcatcc 120
ctccacccca gacaactcga g 141

```

<210> 886

<211> 286

<212> DNA

<213> Homo sapiens

<400> 886

```

gaattcgcgg ccgcgtcgac gcaacatgag gcttttcttg tggaaacgcgg tcttgactct 60
gttcgtcact tctttgattg gggctttgat cctgaacca gaagtgaaaa ttgaagtctt 120
ccagaagcca ttcactctgc atcgcaagac caaaggaggg gatattgatgt tgggtccacta 180
tgaaggctac ttagaaaagg acggctcctt atttactcc actcaciaac ataacaatgg 240
tcagccatt tgggtttaccc tgggcacccct ggaggctcgg ctcgag 286

```

<210> 887

<211> 264

<212> DNA

<213> Homo sapiens

<400> 887

```

gaattcgcgg ccgcgtcgac ggatcagaaa tattgcttgg aaagtgtctga gctcatgatg 60
gatgctcaac aagcggtagt tatgataatg gcagggaacg cggtgggggtt gcttgtcttg 120

```

```

ttttctgcgt gttttggcgg tctgcaagg gagagcagcc agcaggcagg gcacctgtgt 180
acgtcgatga ctgaccaccc catggtaccc cagatctatc tccccaaaac actattcttt 240
ctgcctggga cccattctct cgag                                     264

```

<210> 888
 <211> 290
 <212> DNA
 <213> Homo sapiens

```

<400> 888
gaattcggcc aaagaggcct atgaagcagg cgctcttggc tcggcgcgcc ccgctgcaat 60
ccgtggagga acgcgcgcgc gagccacccat catgcctggg cacttacagg aaggcttcgg 120
ctgcgtggtc accaaccgat tcgaccagtt atttgacgac gaatcggacc ccttcgaggt 180
gctgaaggca gcagagaaca agaaaaaaga agccggcggg ggccggcgttg ggggcccctgg 240
ggccaagagc gcagctcagg ccgcggccca gaccaactcc aggcctcgag          290

```

<210> 889
 <211> 243
 <212> DNA
 <213> Homo sapiens

```

<400> 889
gaattcggcc aaagaggcct agctaccaat tcttctactc ttcgtgctgt ttcttcctcg 60
atgagttttt cttctatttc ttgctgtcga atttttcgtc gccgttcgaa ctccgctttc 120
ttctcctcct cctctcgttc ctgcttctcg tccaggctgc tgcgcttgc cctcacgttt 180
tgcacgttct tcctcctctc tagctttttg tcgggcaagg tcagcttgtc tctgtcgttc 240
gag                                     243

```

<210> 890
 <211> 241
 <212> DNA
 <213> Homo sapiens

```

<400> 890
gaattcggcc aaagaggcct aagctgggtgt cattacacgt caacctgcct tgagccaagt 60
cctgcttcac ctgcagcgcg aacagggtacc ttgtgagttc ttcttggagt tgtgtgtggg 120
caggcggaag gaatttcacc acaaaactta caacaacgtg ctttggcctt ctaatctgtt 180
tcacaatggg ttttaggaga tccagccaca ccgtgatctt tttgtgatca ggaaactcga 240
g                                     241

```

<210> 891
 <211> 431
 <212> DNA
 <213> Homo sapiens

```

<400> 891
gaattcggcc aagaggccta aaaatatctg ttttaataca agataaccac atcaagatgg 60
ttggaaagct gaagcagaac ttactatttg catgtctggt gattagttct gtgactgtgt 120
ttacactggg ccagcatgcc atggaatgcc atcacggat agaggaacgt agccagccag 180
tcaaattgga gagcacaagg accactgtga gaactggcct ggacctcaaa gccaacaaaa 240
cctttgccta tcacaaagat atgcctttta tattttattg aggtgtgcct cggagtggaa 300
ccacactcat gagggccatg ctggacgcac atcctgacat tcgctgtgga gaggaaacca 360
gggtcattcc ccgaatcctg gccctgaagc agatgtggtc acggtcaagt aaagagaaga 420
tcaagctcga g                                     431

```

<210> 892
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 892
gaattcggcc aaagaggcct agtctgtccct gttgtgtggg gcgaagtgat ggactctgcc 60
agggtggacat gctgtgggtg gatgttcccg gcgtgtgccg ggcctgaatg gacaggggcc 120
acttcacagc atgtcaggga aaatcactgt cacacaattc caatggattt tgtgctcttt 180
ttgaaaaaaa aaaattcttt agcgtaaaaca tgaatttttt ttcaatgtag cccctgggga 240
atgaatgaaa ttttgagcct cttcaatacg taaaattaaa tttataccac tgaggggagag 300
accctttctg aaagaagtat ggccaaaagc accttaatgc tgctgacatt gttgttttta 360
tgttcatttg ctggagcgct cgag 384

<210> 893
<211> 208
<212> DNA
<213> Homo sapiens

<400> 893
gaattcggcc aaagaggcct agtggggcct ggctatctag aaaccaccgc aatggctgga 60
gccaagtttg gtcaatgggg taaacatttc agaaggtagg cagggcatgc cctgaggcca 120
ggaggcctct gccgtcctgg ctgtgtcttc aggatggcca attctcacag aaaccaccac 180
aaggaaagat ctctgggac gactcgag 208

<210> 894
<211> 479
<212> DNA
<213> Homo sapiens

<400> 894
gaattcgcgg ccgcgtcgac atcaaatattt gtattatggt gctatatatt ggtaatgatc 60
ctttaaatatt gggaagggat tttaaaaata ctgtgattaa actgggttct tcctttgatt 120
ttcatatttt aaataaagcc acagtcattt atacaaaaga aaagcatctg tccttgggca 180
aatcttttga ggacagaggt caaagtaaac tgcataaggt ttttacatca tttctgtatg 240
tatttgatat atagatcaat atctgtacaa atttaattctt ttattttctt ggtaactcgt 300
gatcattgag aaagtgtttg aaactttctc atgaagtgtg tatataatgg cgtgaaaaat 360
tcctttggaa aaatttatgt tcctttcatt tttaccaa atgcataattt cagcatggat 420
gtgaaaagca ttaaaattat aacttttgtg acaagatgaa aataattcac acactcgag 479

<210> 895
<211> 386
<212> DNA
<213> Homo sapiens

<400> 895
gaattcgcgg ccgcgtcgac atcaaaaatg agggatgtaa gtttcaatgt gagtatttct 60
gaatagtttt tttcaaatgc agccaagtca gtaatactct gttgtaactt tagatagggg 120
atctatgaat taaaaatccc tgaatgtgac attactctaa aatcttgcac cttgaactgg 180
agagcactgt tgttttctgg taggaggtcc atgaagcatg cattagaggt agcttctttt 240
cctggaggaa gatttggatg agtatgtatt ttttatattg aaacagacat gaatatattt 300
tgagagtgaa agtaaaacta gcaggaatgt taagaaaaaa cttaaaattg ctttaaagta 360
taatgtcgaa tccccgaat ctcgag 386

<210> 896
<211> 202
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (40) .. (41)

<220>
<221> unsure

<222> (62)

<400> 896

```

gaattcgcgg ccgcgtcgac actttaacca gtagaacatn ncaaaaatga cactttgcta 60
tntttgggta caagccttga gcatgtcagg cagcttctac ttttgtaactc ttgggagctc 120
tgagttgctg ccgtgcaaga agctgtcata ccttgctgga gagatgatgt ggagaggaag 180
agattccagg acagtactcg ag 202

```

<210> 897

<211> 266

<212> DNA

<213> Homo sapiens

<400> 897

```

gaattcgcgg ccgcgtcgac cacagacttc tccactgata tctatgtag tatttatcca 60
gcttcttact tggatatgac acttggattt ttataaggta tctcaaacct aatatgtcca 120
aaactaaaact tctgattctc tgtatacttc cagcttgctt ctcccacagt gtttccaatc 180
tcagtaaatg gcaaccctat ccttctagtt ctttaggcca aaagcttgga atcactcttc 240
cttttctttc cccacatccc ctcgag 266

```

<210> 898

<211> 180

<212> DNA

<213> Homo sapiens

<400> 898

```

gaattcgcgg ccgcgtcgac cttgcattgc gtggttttag ggaagcaggg tctggctttt 60
aatatgaact gcaaaaagca gcttctcact gatatttttt tgttggtgtt tctggggggt 120
ttttttgttt tgtttttaat gcctttgagt gcatattttc ttctctgtct gaaactcgag 180

```

<210> 899

<211> 200

<212> DNA

<213> Homo sapiens

<400> 899

```

gaattcgcgg ccgcgtcgac atggggccact acactccagc ctgggtgaca gagcgagact 60
ccatctcaaa aataaaaaga gttgctagaa aaggtagaac ccacatttct ctggcttcca 120
aagcctgtgt tctttctgct gtattatgct tttttataac aaccaggcta atatatctta 180
aataccatcg tacactcgag 200

```

<210> 900

<211> 163

<212> DNA

<213> Homo sapiens

<400> 900

```

gaattcgcgg ccgcgtcgac cagaaagtgt agctctgaac aaggggacca ctatggctag 60
agagggcctg ggagctgagg gtgggatttc gttttgtttt gttttgtttt gtttttgttt 120
ttttgagaca aagtgttgtc ctgtctccca agctggactc gag 163

```

<210> 901

<211> 186

<212> DNA

<213> Homo sapiens

<400> 901

```

gaattcgcgg ccgcgtcgac gtactgtaac atgaaagcgt tgctcgacta ccttccgctg 60
attatcttct tctactttta taaaacgacc gatcctaag atagtcaaca tccccctctc 120
caattggttg gtagcgcagg aaatactgat caaaatcata ttcttgttgc aacaggcgca 180

```

ctcgag

186

<210> 902

<211> 212

<212> DNA

<213> Homo sapiens

<400> 902

```

gaattcgcg cgcgctcgac ttcactctct tgatgctctg cttttctctt cttaactcga 60
cccacagtag accctccac tcaaactctgc ccccaatacc ctttgcaacc aatattaccg 120
cactacactt tatctccct aagggtttcc tgcctcctct ggtcttaggt gaggtcattt 180
ctctgccagc ctttaaagtg gaagccctcg ag 212

```

<210> 903

<211> 192

<212> DNA

<213> Homo sapiens

<400> 903

```

gaattcgcg cgcgctcgac gtttattaaa aaaaaaaaaa gaagaagaaa gcttgccagag 60
attattgggtc tcaggaaagt caagttaaatt atgcaaattt aatgaataat aggaaattac 120
ttaaatactt ttaattttat aagcttcctt atgacagtgc ttatccactg tattctttcg 180
gttctcccta ta 192

```

<210> 904

<211> 196

<212> DNA

<213> Homo sapiens

<400> 904

```

gaattcgcg cgcgctcgac tgtaaatga ggttcctcat ttccttatga ccaccaagat 60
gcaccttttc ctattttgga ctctaattcc agcagctgtg tttaaacctc ctggagattt 120
acagaaatac gtcttgccat tctgtgttca ttcgccagat tcattgctag ttgggataca 180
agcaagccga ctcgag 196

```

<210> 905

<211> 259

<212> DNA

<213> Homo sapiens

<400> 905

```

gaattcgcg cgcgctcgac tttgtttcaa agacaattcg aattgccttc tgaaagtcta 60
aatttgcag actaacattc agaattctcag tctggtctct cttctagca atagctcctg 120
ctttttctta catgagtact ggttcagat catctagatg cttttgtttt ctccatagt 180
cttgggcatt cctttctgtg tctgcatgtt gtttctctcc ctcagatgtt gtctcccaa 240
ctccataaaa agtctcgag 259

```

<210> 906

<211> 208

<212> DNA

<213> Homo sapiens

<400> 906

```

gaattcgcg cgcgctcgac cctagctccc ccgaaatttt aagactattt acctagattc 60
ggagatgggc ttggagagtt ccaaaagggg tgtgtgtgtg tctgtgtgtg tgtctgtgtg 120
tgtgtctgtg tgtgtgtctg tgtgtgtgtc tgtgtgtcta atatttagac taaaccatgg 180
taaatgtacg caccagtaa acctcgag 208

```

<210> 907

<211> 212

<212> DNA

<213> Homo sapiens

<400> 907

```
gaattcgcgg ccgcgtcgac ctaccagtgg acattttgag aatattgcag ttgtttttct 60
tctgaaagag taaaccaatt tggttactca ttttaccaat ttggttttga ttttgcaagt 120
ggttacaact catgagagga ttcttatttc tgatcaatat attgtgtttt tggaaaggac 180
ttctgggaaa taattatgat gaagccctcg ag 212
```

<210> 908

<211> 137

<212> DNA

<213> Homo sapiens

<400> 908

```
gaattcgcgg ccgcgtcgac ggagaagatt aatagatggg acagaaactg cctttgatta 60
accatcaggt tctaggggtt gtgataggca caacatatat attctacttt tggctattga 120
gggggggtcaa cctcgag 137
```

<210> 909

<211> 209

<212> DNA

<213> Homo sapiens

<400> 909

```
gaattcgcgg ccgcgtcgac taaattcaca agaaaaatac ttgctttttc tcccttttaa 60
tacgaatctt aactgctggt atccttaaaa cctctgaagt tgatgaatga ctttttttaa 120
aatgaattt atgggttctt aacatgtatt tgtgttttat tttagtcctt atttgtttta 180
gtgttcacat ctgcgccagg ctactcgag 209
```

<210> 910

<211> 392

<212> DNA

<213> Homo sapiens

<400> 910

```
gaattcgcgg ccgcgtcgac atactttttc cttcttatga cgtttttaac catttgttca 60
gttattttaa aaagtccaag tgaggtttta atcctattta aatctaccac atataatctg 120
gtgtgtgtat gtatttgtat gtctcattgt gttttatgaa taaagatata tcttcattct 180
tgtcaagcaa actacaaagt attagataat actttctcta gttttctaag catccattaa 240
taatttatag tatggacatg aagatgtttt tctgtgcttt tgttgttgtt gttgttgttt 300
gtttttttga gacaagggtc ctctctgtca ccagggctgg agtgcagtgg caggatcatg 360
gcctactgca gcctccacca gccaggctcg ag 392
```

<210> 911

<211> 192

<212> DNA

<213> Homo sapiens

<400> 911

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gaattcgcgg ccgcgtcgac gagacacata accttcta atcttagaaga gtattttctt 60
tggcaccaca caagccctat atagcaggaa ggaaatatga ggttcagaaa gagtctagtc 120
tcagtcttac ctttaacttc actgtgtgac cctggaaaaa tatctttctt ctctactccc 180
actcaactcg ag 192
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<210> 912

<211> 226

<212> DNA

<213> Homo sapiens

<400> 912

gaattcgcgg ccgcgtcgac ctgagaactt aatagtttta agtctggtgt cacttctctg 60
gacaaaataa tcttaaattc ttataatctt tcaacttaag tctttttttt ataagctttg 120
ttttatttcc ttactttact tttagatcctt cccagtcctt cagaatttta acttctatat 180
catgggtttta ctctgccaat tcccatatta ccttccccctc ctcgag 226

<210> 913

<211> 465

<212> DNA

<213> Homo sapiens

<400> 913

gaattcgcgg ccgcgtcgac cggagtctcg gggtcgcgtg cacctgggcy gccagggagg 60
ctccagtgcc cgggagaaaag gcaagaaaac tgaggcacag agagattgtc acacagccag 120
ttgtagttta caaagtttta ttccagaagg aaaaaagcca cttcacctag aaattttgca 180
aacaatatcaa cttttactct gtgagtaatc cagggcctat caagactaca ttttagttga 240
ctgcaaggcc tctgaggcac ggggaattcac agctgagttc ttggagaagg tcttgagcc 300
atctggatgg cggacagtct ggcacatgat gtgctcaagg tgctgcttga ggccacagat 360
gtggacattt cagccttgaa ggcagtgggtg cagcttgctg agccatacct ctgtgaatct 420
tgagcgagta ctttcacctt ggagtgtgtg aaagagctcc tcgag 465

<210> 914

<211> 172

<212> DNA

<213> Homo sapiens

<400> 914

gaattcgcgg ccgcgtcgac ctacttttc agatcttgaa aggtttgaga acttggaac 60
aaagtaaact ataaacttgt acaaattggt tttaaaaaaa attgctgcca ctttttttcc 120
ctgtttttgt ttcgtttttg tagccttgac attcaccac gcaaccctcg ag 172

<210> 915

<211> 185

<212> DNA

<213> Homo sapiens

<400> 915

gaattcgcgg ccgcgtcgac gtcctgcca tttacagtga gcttaaagac cgatcacaga 60
aaaaaatgca gatggtttca aacatctcct ttttcgccat gtttggtatg tacttcttga 120
ctgccatttt tggctacttg acattctatg acaacgtgca gtccgacctc cttcacaac 180
tcgag 185

<210> 916

<211> 219

<212> DNA

<213> Homo sapiens

<400> 916

gaattcgcgg ccgcgtcgac aaaatattct attgtaagtt tgttttatta atttattttg 60
tggattacag taatgctttt gttggcctgt tgtatgacaa actattttaa gggtcacatt 120
ttgatttgta ttgccaaca agcccttttg cttgttaaag ctatagctaa ctctcaggag 180
ataattgcag ttctactctt agaggatggc tgcctcgag 219

<210> 917

<211> 270

<212> DNA

<213> Homo sapiens

<400> 917

gaattcgcgg ccgcgtcgac gaaatacagt gtatatatca ttgtatagta cataaagcac 60

```

tgaatgatac atttataatc agaattttta aaaaatcctt agattttatag tcagaaaaaa 120
agacttgtag agattagaaa gattatggat tactttgagg ctatgaaaat tgataattct 180
ttaatttcaa cagtcagata tatgttagtg ttttagagta ttttcagctt tctattagaa 240
catccgaaag ttaggggaca gaagctcgag                                270

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<210> 918
 <211> 154
 <212> DNA
 <213> Homo sapiens

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<400> 918
gaattcgcgg ccgcgtcgac tgtaatttag tttctgcag ttccatttag gtatcatttt 60
aatacttaga aaggaacaca aagatttttt tcaaatgaga aaactttcag cttttatcaa 120
atatttattc attcaaaca cagtagctct cgag                                154

```

<210> 919
 <211> 210
 <212> DNA
 <213> Homo sapiens

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<400> 919
gaattcgcgg ccgcgtcgac gacaggggtct tgctgtgta ctcaggctga tctcaaactc 60
ctggcctcaa gcttcctccc accttggcct cccaaagtgc tctaataatca tttattgaaa 120
ggctttacct gttgaaacac ctaggtagct atattgaaaa tcaatccatc atatatgcat 180
gggtctaaaa ttttgaactg tattctcgag                                210

```

<210> 920
 <211> 551
 <212> DNA
 <213> Homo sapiens

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<400> 920
gaattcgcgg ccgcgtcgac gatgttttca acgttctttt gtcttttgcg gaagtcagga 60
tagattcaag acataatctc ttgtaagatc taaatagagc aaatgtaaac aaaagtgcac 120
ttttgtattc ttgttaattt tagatgcttc cctagcttac aaaaagtctt atttttgggt 180
taaaaatcaa tcaactttct gatatttccc cttctgcaat gttattgttc ataagaaaac 240
acgagctgaa aatggaaatc tgcagttggt tcagttgtct tgaatttctt tcagtggcca 300
catcatttcc acgttttcca catccgggag gaagcctgga ctgtgcagcc ttcgggcacc 360
cggcacagac actgtgctgg caggagcttc agacacgcca agtggatgga tttggattga 420
acgcataatga aacaggagac gggttctcat gtgagatcaa agctcctcca aagcctgttc 480
aagctctaag cgattctcaa atgtttacca ttattaaagg taaactacac ctgttgaagc 540
ccgcgctcga g                                551

```

<210> 921
 <211> 164
 <212> DNA
 <213> Homo sapiens

```

<400> 921
gaattcgcgg ccgcgtcgac ctgcccggt gtgtgatgtt cccctccctg tgtccatatg 60
ttctcattga aacaatgatt ctcttaaaac actctcaaat ctgccactt ggtacatgc 120
ttttgcaata ttccagacca aattaccatg atctgtcact cgag                                164

```

<210> 922
 <211> 194
 <212> DNA
 <213> Homo sapiens

```

<400> 922
gaattcgcgg ccgcgtcgac ctctgtctta aaaaaaaaaa aaaaaaaaaa aaaaagttaa 60

```

tggatctttt gatacagatt gaaaaagcct ttattcaaca cctaaaatgt gtcagggtgct 120
ttggctttgt actaacatgg ttactgatta ttatggtttt atccctttta aaatacaaag 180
aagcaggctc cgag 194

<210> 923
<211> 200
<212> DNA
<213> Homo sapiens

<400> 923
gaattcgcgg ccgcgctcgac gagatgcttg aggtgcagtg ttggggatcc agagccatgt 60
cggacctgct actactgggc ctgattgggg gcctgactct ctactgctg ctgacgctgc 120
tggcctttgc cgggtactca gggctactgg ctgggggtgga agtgagtgtc gggtcacccc 180
ccatccgcaa cgtactcgag 200

<210> 924
<211> 158
<212> DNA
<213> Homo sapiens

<400> 924
gaattcgcgg ccgcgctcgac ctactacctc accgagaact cctccaccac tgactgttca 60
ggatccctta tgtcctgcag ttgtccctt agaagaatta tctccagata gtattgatgc 120
acatacgttt gattttgaaa ctatccccca tctcgcag 158

<210> 925
<211> 187
<212> DNA
<213> Homo sapiens

<400> 925
gaattcgcgg ccgcgctcgac gtgtcacagt catcaacatt ttttgtgtaa gcagaaactt 60
tattgtgtgc tagttactta atatcagtg ttattccatt ttcttcatta tcatattcca 120
tattataata attagatgtg aagacatgca ctttcgtgta ttgagtattt ataggatcag 180
tctcgag 187

<210> 926
<211> 164
<212> DNA
<213> Homo sapiens

<400> 926
gaattcgcgg ccgcgctcgac aaatagttt ttaaaagaga ttattggta cgtgcttctg 60
gttttttaaaa ttcttgaga aatcatatgc tgtgatcaac catagcgtg tttttttttt 120
aatagcagga aatgtatata agtctattac cgcacttact cgag 164

<210> 927
<211> 192
<212> DNA
<213> Homo sapiens

<400> 927
gaattcgcgg ccgcgctcgac cttgcttcag aaattgaaat ctgaaggacg tcgggtgctg 60
attttatcac agatgattct tatgttggac atttttagaga tgttcttgaa cttccattac 120
ctcacctatg taagaatcga tgaaaatgcc agcagtgagc aacggcagga actgatgagg 180
agtccctcag ag 192

<210> 928
<211> 167
<212> DNA

<213> Homo sapiens

<400> 928

gaattcgcgg ccgcgtcgac cctaaaccgt cgattgaatt ctagacctgc ctcgagcctg 60
accaacatgg tgaaatgctc tctctcctaa aaaaaaaaaa tttatatata tatatcagcc 120
agggtgtggtg gcacgtgcct gtgateccag ctacgctgga gctcgag 167

<210> 929

<211> 144

<212> DNA

<213> Homo sapiens

<400> 929

gaattcgcgg ccgcgtcgac acctcctcca tttaaataaa ctggtgactt tccttttatt 60
ttttaaaagt ggaaaccctg tgtgtgcttc tcgatttaag ggtttctgat gacattatcc 120
ttaagaccag cattgatcct cgag 144

<210> 930

<211> 213

<212> DNA

<213> Homo sapiens

<400> 930

gaattcgcgg ccgcgtcgac agtttttgca tgtaaagttg ttcatagtag ccttgaatga 60
tattttgtct tcgggtggtg tcagggtgtaa tagctcccat tttgtttatc ttttcaaaga 120
accagctttt tttgtttcat ttatcttttc tattttttta tttttgttcc aatttcattt 180
agttctgctc tgatgagaat gctacttctc gag 213

<210> 931

<211> 252

<212> DNA

<213> Homo sapiens

<400> 931

gaattcgcgg ccgcgtcgac cctaaaccgt caattaatat tactgcctac ttggagcttc 60
aagtcttaatt tgggggaaat aaagagcaac agaaaagaga acacttgggc caacacataa 120
aaaggggtgat aatatatttag agagtttggg tagacttgaa tattatttgt ttagaacctg 180
aatctcaagt ctaagtctgt aacaagattt ctcttcacga tgatgaggag tctgatgagg 240
agagctctcg ag 252

<210> 932

<211> 437

<212> DNA

<213> Homo sapiens

<400> 932

gaattcgcgg ccgcgtcgac gcggggcggc cggcatggag ctcccggagg cgcggcaggg 60
tcaggagctc ggtggcatgg cggcgggtgc tgccccgatt tcctccagct gccactcctt 120
gttctgtgtc cccgggtccct agacgcctcg tctctcccg tgctccctctt cccatggagt 180
cagtacggat cgaacagatg ctgagcttgc ccgccgagg cagcagcgac aacttggagt 240
cgcgcgagcg aggggcatca gcggcccaag tagacatggg cccccacca aaggtggctg 300
cagagggccc cgcacctcta ccgacgcggg agccagagca agagcagtct ccggggacct 360
caacgccgga gagcaaatgc ctgctcacgc aggcagagcg cttggcgtcc cgggggcgaa 420
tccgtgaagc cctcgag 437

<210> 933

<211> 137

<212> DNA

<213> Homo sapiens

<400> 933
 gaattcgcgg ccgcgctcgac ctataagctg ttgcaacttt aggttctctca atggatacaa 60
 aatttgccat tatactggct ctatcttgcg caagtatgat gtgccatcaa atgcagaatt 120
 atagcaggaa tctcgag 137

<210> 934
 <211> 190
 <212> DNA
 <213> Homo sapiens

<400> 934
 gaattcgcgg ccgcgctcgac gttttgtaat aaaaattccc aaccatatat gcacttatag 60
 ggaaacaaag gaccatcgcc aaatgttttc catgctgac tccaaagtgg tgagtattatg 120
 tgtgattttt attttgttta tgcctcttcg tattttccga atttcataca ataaatatct 180
 gttactcgag 190

<210> 935
 <211> 169
 <212> DNA
 <213> Homo sapiens

<400> 935
 gaattcgcgg ccgcgctcgac aggtccattt catctaagtt gtcacattta tgtgtgtaga 60
 atttttcata gcattcacct tacttacct tttaatgcca gtgggggttg caatgatagt 120
 ctctgatatt gcagatttta gtgatgtgct tcttccccc ccgctcgag 169

<210> 936
 <211> 159
 <212> DNA
 <213> Homo sapiens

<400> 936
 gaattcgcgg ccgcgctcgac cttttccac cgccattcc ctccattttt gcccctcttt 60
 gctgggtgct gaatgggctg ctcttcttc accatcatca gcttcatggt tttctttttt 120
 ctttttaaaa ctgtattttt tttgtgcggc actctcgag 159

<210> 937
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 937
 gaattcgcgg ccgcgctcgac atattgaaaa attcagggaa tttttaaaat ttattttatt 60
 cctcaaatat atttaaatat tagttctgtt atcttgttt ggctttcttt tttaggtacc 120
 ccaatgatgc atatgttgac tgtgctgtgg ttgtttctg gcgattttat tcttaccagt 180
 cactgttttc agtgttgtct ttttcttact caacattctg caaagtcact cgag 234

<210> 938
 <211> 152
 <212> DNA
 <213> Homo sapiens

<400> 938
 gaattcgcgg ccgcgctcgac atattatttt acatcattgt ttctgtcctt ttatttttca 60
 tttgtgtct ctaatttaga cccttattac catcacctg gtttatgttc acagtctcct 120
 aaatgatctc cttcataccg ctagtactcg ag 152

<210> 939
 <211> 275
 <212> DNA

<213> Homo sapiens

<400> 939

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gaattcgcgg cgcgctcgac catagccttc ctctgtcct actcatgaga ctgcctccat 60
ttcttccttc tgcaaccctg ctctatcag ctgaaccctt ctttcggagt gttagtgagt 120
acccgtctct cccagcccc tcagctgggtg ggcttgggtg tgtcagcggc aaatggggct 180
ctggttccaa tggggcactc tcctctctct cttgttcctt gtgcagaaaa cctttgcttc 240
actccactgc cctctctagt tcccgatccc tcgag 275
```

<210> 940

<211> 246

<212> DNA

<213> Homo sapiens

<400> 940

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gaattcgcgg cgcgctcgac caacaacaaa aaaaagactt tattctctgt tgtcagtgtg 60
tggttaaccct tttattgcat ttaatttcta caggtgttag tctactatta tttttgttcc 120
agtatctcat caagtcaaata aagcacagag taagaatttc aaagctagag agggctgaca 180
ataatagaaa acagaaacat actcaatata tactctcttc tcactatgaa gctgggggcta 240
ctcgag 246
```

<210> 941

<211> 168

<212> DNA

<213> Homo sapiens

<400> 941

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gaattcgcgg cgcgctcgac atttaattaa tcacttcaag acatttttga tattacagct 60
tttgtcctta ggtggagctg ttaaagttaa ataagtgtga atatctgtca aatacagttt 120
ttgcaagagt gcatgtacat tttatatatt gtaagaaaag ctctcgag 168
```

<210> 942

<211> 205

<212> DNA

<213> Homo sapiens

<400> 942

```
gaattcgcgg cgcgctcgac gaagccttct gtaccatttt acgaatttct gtcttcataa 60
tataagttaa aatactgtca tttcaatttt ctgcttttaa ttgtttttaa taagcattcc 120
aaagtgtatc agacttaagc ttttaataca tcagtcattc agttgataga caaagtttagc 180
gatgctttat gctaggatag tcgag 205
```

<210> 943

<211> 188

<212> DNA

<213> Homo sapiens

<400> 943

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gaattcgcgg cgcgctcgac ctgagcattc cagccggggc atcctgtgaa aatgatgtta 60
ctttattttt cagttttttt cttctcctta tccaggacac atccccacca gacaccagct 120
cctctgccca atccaggcct ctatccccca ccagtgtcca tgtctccagg acagccactc 180
acctcgag 188
```

<210> 944

<211> 241

<212> DNA

<213> Homo sapiens

<400> 944

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gaattcgcgg cgcgctcgac gaatcatata gtatatagac ttttcagatt ggcttcttcc 60
```

```

acttagtgac atttatttaa atttcctaata gtctttttat agtttgatag ctttttttta 120
ttcttttaaat tttttttttc ctgctgcctc tctaattgca gaaagctcat ttatttttag 180
cacatttcat tttgatattc cattatctgg gtgtaccaga gtttctccat atcacctcga 240
g 241

```

<210> 945

<211> 355

<212> DNA

<213> Homo sapiens

<400> 945

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gaattcgcg cgcgctcgac cagggtactac catgtttctg cattggctag tgggaatggg 60
atatgtcttc tactttgcct ccttcattct actactgaga gaggtacttc gacctgggtg 120
cctgtggttt ctaaggaatt tgaatgatcc agatttcaat ccagtacagg aaatgatcca 180
tttgccaata tataggcatc tccgaagatt tattttgtca gtgattgtct ttggctccat 240
tgtcctcctg atgctttggc ttctatacgt tataattaag agtgtgctgc ctaattttct 300
tccatacaat gtcatgctct acagtgatgc tccagtgagt gaactgtccc tcgag 355

```

<210> 946

<211> 187

<212> DNA

<213> Homo sapiens

<400> 946

```

gaattcgcg cgcgctcgac gggaagctta gaggcaggaat tcccttaaga cgggtgtgata 60
gactctttta aagaaaaaat attcagtcct taacactcgt taaagcatgc aaaggaagac 120
tttattcagg atcatcgtga taggtattgg aagcacagca gtgagatttt gcaatggggc 180
actcgag 187

```

<210> 947

<211> 298

<212> DNA

<213> Homo sapiens

<400> 947

```

gaattcgcg cgcgctcgac ggaaaagaat cttaatgcag ctatcaagac ccagttggat 60
gtgttttagt ttgtcactac acttaaggag ggcatttttt attttaaacc aaaaggggac 120
agaaagctta gtgaggagt tagaagccct accctttcaa gaagtgttga tgggaattgaa 180
gacaaaccca ggagaaggga acacgagggg gaggagaaca ggggtggcctt cagacacca 240
ggccaacaca tgcaagggt tagacttact ggaaaactcc agagcgctga acctcgag 298

```

<210> 948

<211> 214

<212> DNA

<213> Homo sapiens

<400> 948

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gaattcgcg cgcgctcgac aaacaaaaca aatttcctac cttaggatcc aaaagatatt 60
atcctatatt gtctcctaaa agttttatag cctagccttt tacatttagg ttcttaattc 120
ttaatccacc tgggaataagt ttttgtatat ttttaaaagt agagggttta tctcattttt 180
cccgatagat atgcaattat ccctgtacct cgag 214

```

<210> 949

<211> 216

<212> DNA

<213> Homo sapiens

<400> 949

```

gaattcgcg cgcgctcgac tgcagattgg ctccgagccc ctgacacccat gtatttggtg 60
gactttgtga agccagaatt tctcttgctt aggacacttg ctcgatgcct gattttgtgg 120

```

gatgatattt taccaaattc caagcgggtt gacagcaatg ttcctcaaat tataagagaa 180
aatagtatct ctctcagtga aatcgaatgt ctcgag 216

<210> 950
<211> 272
<212> DNA
<213> Homo sapiens

<400> 950
gaattcgcgg ccgcgtcgac agtatctgtt tcttttaaatt ggagcaggac tttacaatga 60
ttacaaaatc attctatatt actttttttt tattccagcc ctttacagct gtctcaccta 120
ttcataattc agtagcagct ttttcttttaa gatactcacc ttttttgcac tcatgtttca 180
ctagtttatg cagtaattta gataatttag ttactagcgt gagtacacct accacaaaca 240
acatgggaat aaacaaaacc gaatcactcg ag 272

<210> 951
<211> 224
<212> DNA
<213> Homo sapiens

<400> 951
gaattcgcgg ccgcgtcgac atataagagc acgttgtaaa cttgaaagag acaaaggcac 60
aaatgtggct gttgattaat ttgactgcct ctctgtgctc gtcacctcca tgccatgcac 120
tgtgcttgct aattgcttta tggggggcatt ctcttattta ttccccagcc ctgggaaata 180
ggagctgtca ttatccttct ctttctgcac aaggaaaact cgag 224

<210> 952
<211> 164
<212> DNA
<213> Homo sapiens

<400> 952
gaattcgcgg ccgcgtcgac gggggagcag gataaaagcg gtctttcagt ttttattata 60
tgtcattctc ctatgttttt caaatcatta ttctatgtct cttctcagta aggcctatcc 120
tgaccaatc atctaaaatt acaacttccc accacactct cgag 164

<210> 953
<211> 210
<212> DNA
<213> Homo sapiens

<400> 953
gaattcgcgg ccgcgtcgac gcattttgtg ttttctctacg tggtctcattt cagccaggta 60
tagttttctg tgttcacctg gtatttctta cagacaaaaa tcatgaaaaa gcgaatgcaa 120
aatttcagta tgttcaaatt gtttcttagt atatcggtgg ctttgggaatg catttgcatt 180
ctcaaaaaca gcttcacagc aaaactcgag 210

<210> 954
<211> 191
<212> DNA
<213> Homo sapiens

<400> 954
gaattcgcgg ccgcgtcgac ataaaattac gtcattatct atttgttcat tcattcaaca 60
aatttttgat gaagtaaaat aatagtataa gcataacaac tgctatttat tgaacactta 120
atatgctcca ggttctaata tacatactct actggctgta tcctacacaa aacacacaaac 180
aagcactcga g 191

<210> 955
<211> 195

<212> DNA

<213> Homo sapiens

<400> 955

```

gaattcgcg cgcgctcgac atttcttatt agccaatatt tattaagcat cgcgtgagaa 60
ctttcctgtg cattgggctt acgggaggat tttttttgct taagtgtgat tacactgcca 120
ttcttgaact tgttcttcac ttaggagaaa caatttgagg gtaatatgaa cagaatattt 180
gtgagcatac tcgag                                     195

```

<210> 956

<211> 231

<212> DNA

<213> Homo sapiens

<400> 956

```

gaattcgcg cgcgctcgac ctacttacta aattgagttt ttaaaaagac ttagtgtgac 60
atttgacagt gtctttcaaa cgaacttctc taacaagttt atagtatttt tcctgtttca 120
acactattag aagtcttata aattatgcta attagcatgg cagtcatgtt acacactctt 180
aacattgcc aagaactgtt gatttcgttt gagaaaacc caggactcga g          231

```

<210> 957

<211> 214

<212> DNA

<213> Homo sapiens

<400> 957

```

gaattcgcg cgcgctcgac cgagatccac ggctgcatcc cctacgaacc ccatgaaatt 60
cctgaggaat aaagcaataa ttcggcatag acctgctctt gttaaagtaa ttttaatttc 120
gagcgtagcc ttcagcattg ccctgatatg tgggatggca atctcctata tgatatatcg 180
actggcacag gctgaggaaa gacaacagct cgag                                     214

```

<210> 958

<211> 183

<212> DNA

<213> Homo sapiens

<400> 958

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gaattcgcg cgcgctcgac taattacctg aagctttagt aataaagaac taattttttt 60
tgtcagttac cacattttgt ttttagcttt aagaggttag tagtgacaaa tactgaggct 120
aaagggttaag caagatttcc aggtttacag agatattaat taatctggat gaggtcttct 180
gag                                     183

```

<210> 959

<211> 199

<212> DNA

<213> Homo sapiens

<400> 959

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gaattcgcg cgcgctcgac atttgcggtg actgtggatt tctctctgcc tttggaacat 60
ttgtgcaagg atgagagggg atagttttaga tctcttaact gcatatgctg taggttataa 120
agccacagta atgtgtttcc tttgcagttg tgccttctat tccttgctcc agactagctc 180
tgatagggaa gctctcgag                                     199

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<210> 960

<211> 195

<212> DNA

<213> Homo sapiens

<400> 960

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gaattcgcg cgcgctcgac ctttttttaat actatgaaga aaccaaggca gaattacgac 60

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ctctggttct ttttcttttt ttctttttta gacaggttgc gttctgtcgc cctagctgga 120
 gtgcagcggg gtgatcacag cacactgccca cctccacctt tgaggctcaa gcagtcctcc 180
 catctcaagc tcgag 195

<210> 961
 <211> 161
 <212> DNA
 <213> Homo sapiens

<400> 961
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 gtgggaaaaa agtgagagga atactttttt gaaattggta tcggaaggaa ctggagaaga 120
 gaaaacaaca gtgccaaatg agaaaagaac agttcctcga g 161

<210> 962
 <211> 252
 <212> DNA
 <213> Homo sapiens

<400> 962
 gaattcgcgg ccgcgtcgac caaagagtct tgaattcttt tgttttccca gtaccaaatt 60
 tactttagtt ttatctatga aatgggtgata aactttcgtt gtaagtatca tttgatagca 120
 ttgaagtatt taactttttt gttggagcca gagtctcagt ctaggttgga gtatagtggc 180
 gccaccggct ctatcttagc tcaactgcaac ctccatctcc cagggttcaag cagttctcat 240
 gccttactcg ag 252

<210> 963
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 963
 gaattcgcgg ccgcgtcgac tgctttgtgg acacagattt tcagggagat ttaggggaga 60
 gaaacttacg agtgaatgag atactttatt ctaaacagtt tgaatgtcat tgtgattttt 120
 ttgtcttttag ttgatgatgg tgaggctctc gag 153

<210> 964
 <211> 216
 <212> DNA
 <213> Homo sapiens

<400> 964
 gaattcgcgg ccgcgtcgac gccaatcctt ttttttttca gggccaattc ttaatacatt 60
 ttaaggattt gtgaacagat gggctgcact gcatttgtgt tgatcatgat gttctattct 120
 agacaactaa gaatgtcaaa aagcttccta tcttatgaca actccagtc cagtgatggc 180
 gctacttgga gcaactgggtt agaaagaaaa ctcgag 216

<210> 965
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 965
 gaattcgcgg ccgcgtcgac ccctaaacat gttaccaggt cttatccatt ccccgttaat 60
 ttgcaccacc cccaaacact acattcgtct tggctcacc tttatccctg agagacgtcg 120
 aaggccctct ctgcctgatg gcacattcag ctctgtgaag aaggatgtc tgtgtttttg 180
 tctgtgtggt gtgtttatgt gtgtgtgctt tattttttta agcctaagat tccagctcga 240
 g 241

<210> 966

<211> 252
<212> DNA
<213> Homo sapiens

<400> 966
gaattcgcg cgcgctcgac ggaaaaggaa ttctccaaaa aggtgaccca gagcatttgt 60
tttgaccag ctttgccctgc ccactgagtt cctttgacca gggttgcctg taaatcttcc 120
aggagattt caacacttgt ttgtcttaaa tactttctgc tatcatctca ttgccatcca 180
ctcttcttcc aggtcttga tatattttgg aaaggattt agatgaaact ctattttgct 240
gtggtactcg ag 252

<210> 967
<211> 140
<212> DNA
<213> Homo sapiens

<400> 967
gaattcgcg cgcgctcgac atagctttgt agagtgaat cgactcctaa agtgggtgtcc 60
tgccccagat tgccaccatg ttgttaaagt ccaatatcct gatgctaaac ctgttcgctg 120
caaatgtggg caatctcgag 140

<210> 968
<211> 180
<212> DNA
<213> Homo sapiens

<400> 968
gaattcgcg cgcgctcgac attaattatt gctatgtctt ttactttgct ttattttcta 60
tcttcatgga ttaatttttt ccaaattgatt ccagaatctg ccacacacct accattcatt 120
ttttcccacc aaatgctcag ttgtgtcagg ccatctgtcc attccccctg caccctcgag 180

<210> 969
<211> 475
<212> DNA
<213> Homo sapiens

<400> 969
gaattcgcg cgcgctcgac atcctactat gttgacagac atgatgaaag ggaatgtaac 60
aaatgtcttc cctatgatcc ttattggtgg atggatcaac atgacattct caggctttgt 120
cacaaccaag gtcccatttc cactgacct ccgttttaag cctatgttac agcaaggaa 180
cgagctactc acatttagtg catcctgggt gagttctgca tctgtgtact tctcaatgt 240
atttgggctt cggagcattt actctctgat tctgggcca gataatgccg ctgaccaatc 300
acgaatgatg caggagcaga tgacgggagc agccatggcc atgcccgcag acacaaacaa 360
agctttcaag acagagtggg aagcttttga gctgacggat caccagtggg cactagatga 420
tgtcgaagaa gagctcatgg ccaaagacct ccacttcgaa ggcattgtcc tcgag 475

<210> 970
<211> 133
<212> DNA
<213> Homo sapiens

<400> 970
gaattcgcg cgcgctcgac ctccaatcct tccatgcat tccccctctt tccctcact 60
atacaggtgt ccctgccctg ccagcccaact gggcaacttc ccccatctcc ctatacctcc 120
aaacactctc gag 133

<210> 971
<211> 132
<212> DNA
<213> Homo sapiens

<400> 971
gaattcgcgg ccgcgctcgac ctgatttttc ctccctacata gttgtatgtt gttatttttag 60
cttgccttttt tatgacagtt tcaggcacat tttatatgtt aattaagcat gcatatagcc 120
agctttctcg ag 132

<210> 972
<211> 188
<212> DNA
<213> Homo sapiens

<400> 972
gaattcgcgg ccgcgctcgac tctgacaatc agtttatgtg aatacatgtt ttatggatta 60
aaatattaga ttattattat atcctctaaa tgaattggct tggtatcggt atgaaatggc 120
ccccctttatc cttagtaatt tttttttgtt ctaaaatgtc ctttgggtatt gatgcagccg 180
tgctcgag 188

<210> 973
<211> 156
<212> DNA
<213> Homo sapiens

<400> 973
gaattcgcgg ccgcgctcgac gtgagatgtg agattgaaaa agtgtaagat gtcagttaag 60
attacaataa aaactggaag tatattcttt tttcttttat cgttattata tttatatattt 120
ttcaagacag ggtcttgctc tgtccccaga ctcgag 156

<210> 974
<211> 189
<212> DNA
<213> Homo sapiens

<400> 974
gaattcgcgg ccgcgctcgac atctacctca gttaaacagt tgggtgctat tactaagtct 60
gtcaaattaa attggaaaaa gtaaccaaac agtgagatac aactccacat gaaacttgaa 120
attgtaatttt ccgtttattt aatgatattt ttattttatt gtgcctttta tgttgaaccc 180
cttctcgag 189

<210> 975
<211> 175
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (56)

<220>
<221> unsure
<222> (82)

<400> 975
gaattcgcgg ccgcgctcgac ttattgtatg atttattttg gagttatatt ctgatnacag 60
tgctccctct cccaaatagc antgattttt tccccctct aaaatgtata atctggctct 120
aggttggatt ctttgggtaca tttctctctt ctggatgcc a tgcagcgcac tcgag 175

<210> 976
<211> 223
<212> DNA
<213> Homo sapiens

<400> 976

gaattcgcgg ccgcgctcgac aaatttttagt tgtcccgga gttcttttgt atctgaaacc 60
 tcagttgtca agcttggaaa tctgtacttt taaaatatcc tcaagcgatt ctgattacac 120
 atcaggtttg gaagcacttg gcataaagaa cttcccccac ccaattcaaa gaaatagtat 180
 ttaagccctc ataatgtgca gtgtgggttaa actgtgtctc gag 223

<210> 977

<211> 173

<212> DNA

<213> Homo sapiens

<400> 977

gaattcgcgg ccgcgctcgac gaaatgctct gctctcttct cttttccttg ctgtccctgg 60
 ggctggagga gcacgggct ccccgagggt gggttcagc ctccctagac tctgtctctc 120
 ttccaagggc taggcctggg ggaccagaag caagagtccc aagcgtctc gag 173

<210> 978

<211> 148

<212> DNA

<213> Homo sapiens

<400> 978

gaattcgcgg ccgcgctcgac attggtacca ggcacttaca aagctaaatt ttccgatgtt 60
 cctttcacca gcatactctc ttctcagttt attcattgat gcagaaagca ggcagctggt 120
 caccgggtgt gctgacggcc aactcgag 148

<210> 979

<211> 224

<212> DNA

<213> Homo sapiens

<400> 979

gaattcgcgg ccgcgctcgac atttattaat ctaggaaagt taaatagtcc ctgaaacaa 60
 aaatttttag ctgaatttat tgaaattata ttgtttaa gattacaatt tgaaaatact 120
 ccgtgtttga tgtaggctg aacatgaaaa ctttttattt gaatcagatt tttttttttt 180
 taagttttgt ccatcaacta aaggcacaaa cagacgacct cgag 224

<210> 980

<211> 135

<212> DNA

<213> Homo sapiens

<400> 980

gaattcgcgg ccgcgctcgac cgactttatt aaatctatga aaaatattta tattattgga 60
 ttattatggg ctgtctcgac atggactatg gcggatacag tcgtaactga taaagcaaca 120
 acggtacaac tcgag 135

<210> 981

<211> 234

<212> DNA

<213> Homo sapiens

<400> 981

gaattcgcgg ccgcgctcgac ttctagacct gttcttttta ggcatactat attcatgcta 60
 ttaagggtaa ttgtgagat gcgagtaaat ttctttttct ctctctgttc atcaattgct 120
 ctctttttct ctatactgtc caaaccaggc actgctttcg atctccgtgg ttcatttaatt 180
 ctctttttctg attttctcatt tccaaattct gctcacgacc cccacactct cgag 234

<210> 982

<211> 189

<212> DNA

<213> Homo sapiens

<400> 982

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gaattcgcgg ccgcgctcgac ctctgacaaa tagctcagga tgagtggag aaaatgggct 60
ttgatgtctc tcacaactgc agtgggaatt ttaggaggga caatttgcca agaagatggg 120
gcaggatttg aaaggatttg ggaggatggg gagtgggtg cagagaaagt tgtaggaagc 180
gacctcgag                                     189

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<210> 983

<211> 211

<212> DNA

<213> Homo sapiens

<400> 983

```

gaattcgcgg ccgcgctcgac ttgaattcta gacctgcctc gaaaagctgg agagctgaca 60
aggaagggtt cgagcgtttt gctggcaaag ggatttctta caacctccag gcatgcgtct 120
ttctgccctg ctggccttgg catccaaggt cactctgccc cccattacc gctatgggat 180
gagcccccga ggctctgatg gcagactcga g                                     211

```

<210> 984

<211> 185

<212> DNA

<213> Homo sapiens

<400> 984

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gaattcgcgg ccgcgctcgac cgcattctgc gagcaatgtt gacaattctca tcaaaagtga 60
tattcccact gtgtttaatg tttttctgtt tctttctgtc tcttgggtgt tccttgaggg 120
ctttgatgat cagggcagag gcagaaggca ccaccaagag acagaaagaa acagaaaaac 180
tcgag                                     185

```

<210> 985

<211> 291

<212> DNA

<213> Homo sapiens

<400> 985

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gaattcgcgg ccgcgctcgac agaacctgga aaaattaacc acatgagata cgatacacta 60
cccagatgt tgacgttggg aaatatccgt gctggcaaca aaatgattgt gatggaaacg 120
tgtgcaggct tgggtctggg tgcaatgatg gaacgaatgg gaggttttgg ctccattatt 180
cagctatacc ctggaggagg acctgttcgg gcagcaacag catgttttgg atttccaaa 240
tcttttctca gtggtcttta cgaattccct ctctacaaag tggcactcga g       291

```

<210> 986

<211> 152

<212> DNA

<213> Homo sapiens

<400> 986

```

gaattcgcgg ccgcgctcgac gaccacccag gtaatccaca agattcttaa ttatatctgc 60
aaagattcct ttttcaaag agaccatctt tacagattct ggtgattagg atatggctat 120
atctttttat cttttgttgg gggaatctcg ag                                     152

```

<210> 987

<211> 235

<212> DNA

<213> Homo sapiens

<400> 987

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gaattcgcgg ccgcgctcgac cattataggg tgactgtaag actcaaatag agccactgcg 60
cccagcctag gaagccctaa gttttaaaaa ctttttaaag tttaaattaa gcaaagagct 120

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tcattcaaaac attttaaattc ggcaaataag tgctattaca gagatgcata gatttggttt 180
tcctttttctt actttccctc tcttcctcct tccctccctt tcctccccc tcgag 235

<210> 988
<211> 171
<212> DNA
<213> Homo sapiens

<400> 988
gaattcgcg cgcgctcgac ttctattaat ctttaattccc ccattttgtt tctgtgatct 60
gctatgacat tacaaaaaaa attgggtttat ctttcttctt tcgttttcca gtgcctttat 120
tgcatggaac agtatccctt gcacccacgc ttcaccccg ttagtctcga g 171

<210> 989
<211> 174
<212> DNA
<213> Homo sapiens

<400> 989
gaattcgcg cgcgctcgac ctcaaaattt ttgttttttg ggctccgtt tgttgagggg 60
ggctgttttg agacccagtt gctcatggtt ttaattctga cacatttaag tgggtgtttg 120
ttttgtttgt ttctgagggt tgggggtgtt ctctgttgcc caagctatct cgag 174

<210> 990
<211> 207
<212> DNA
<213> Homo sapiens

<400> 990
gaattcgcg cgcgctcgac gcctgtccct cctccgtaat agctcagcac ctcacacatg 60
cttccgactc agcctgtgct ttgcaactt atttgcttac ctattttctt tcccactcc 120
tccatgactt tgtggaaggc aaggacttta tctcaggatt tctctatcac cagacctagc 180
ttggggcagc aaagcaggct cctcgag 207

<210> 991
<211> 169
<212> DNA
<213> Homo sapiens

<400> 991
gaattcgcg cgcgctcgac attttgtgtt ttgttttcca ttcattctca agtattttct 60
aatttccctt gtgatttctt ctttgacccc ttgattgtt agaaatctgt taatttccac 120
acatttgtaa atgttccaat ttttcttttg ttattgccag ctccctcgag 169

<210> 992
<211> 181
<212> DNA
<213> Homo sapiens

<400> 992
gaattcgcg cgcgctcgac cctaaaccgt cgactctagt cagaagttat ctgagcaaag 60
agaaaaataa gcctggcgta gacagtccca tagaaaatag aatccatagc cactgggctg 120
cccttcaatt tcccaattca ttccactaag tctcatgatg caaatctgtc actttctcga 180
g 181

<210> 993
<211> 355
<212> DNA
<213> Homo sapiens

<400> 993

gaattcgcgg ccgcgtcgac gtggctctgt aatgctaaca agaagtctga aaacctgccc 60
 aagcgcctgt actgcttttt tgettctctt tttttctgtt ctgcgcggg gatcccgagc 120
 tgtcctgcag ctgtacctcg agaactcaga gcagttggag ctgatcaca cccaggccac 180
 aaaggcaggc ttctccggtg gcatggtggg agactacct aacagtgcc aagcaaagaa 240
 attctacctc tgettgtttt ctgggccttc gacctttata ccagaggggc tgagtgaana 300
 tcaggatgaa gttgaaccca gggagtctgt gttaccaat gagagagtcc tcgag 355

<210> 994

<211> 249

<212> DNA

<213> Homo sapiens

<400> 994

gaattcgcgg ccgcgtcgac ctgcaatggc tgggtaaaat tatttcatct ctgaaaaatc 60
 aagaacaccc ttcatatacc attcttcgcc acttccctcc tcccaaac ctaaaataat 120
 acaactcagg ccgggcacgg tacaatttaa tttaacacat cttttgataa tctcatcctt 180
 ggtgttgga aagacgggaa aatccaaaag tgtctatttt gtgcccaat gctcaagtta 240
 atactcgag 249

<210> 995

<211> 346

<212> DNA

<213> Homo sapiens

<400> 995

gaattcgcgg ccgcgtcgac cttttctgct ctgttttgtt ttcctgcct gttgcgtgca 60
 agggaaagtgc ttgtaaagt ctgtgctacg agatttttaa aataaaaaatc gcttcgcagc 120
 aggtttctac aaaataactg gtgctagctc aagaatcat catctgacca tcagaaatct 180
 tgactaaagg tgttgcatgg atttgggggt ctttcggttt ttggttttgg gtctggcttt 240
 tagcagggcc aatgtttccc acaccccgcc ttcattggga ctgctttgcc ttctcacaa 300
 ggtgacgatg gtgtgcgtgg aaagagatga taccacccc ctcgag 346

<210> 996

<211> 147

<212> DNA

<213> Homo sapiens

<400> 996

gaattcgcgg ccgcgtcgac gctttgatgt atagattaca ggtttcatca accttccaaa 60
 gctttcagcc attgtttctt caagtatttt gttttctac tctttctctt ctttctctt 120
 ctaattgctca ttaccctgat gctcgag 147

<210> 997

<211> 329

<212> DNA

<213> Homo sapiens

<400> 997

gaattcgcgg ccgcgtcgac aaattattaa gggtaagta aggagtttta aataccaata 60
 aaatcttatt tataacacca aacctcagaa gtccttcctc ttggcaatag ttttattgta 120
 ttggtttaat ctgatattta atcttctgta ttatagtaag ctgaaaccaa aattgagaca 180
 tgattgtttt atgtttgttg ctattatttt tgaatttttt tttttttttt ttaagacaag 240
 gtcttgetat gttgccaac tggcctcaaa ctcctgagct caaagtgate ctcccacatg 300
 ctctccccc atcacatcac agtctcgag 329

<210> 998

<211> 293

<212> DNA

<213> Homo sapiens

<400> 998

gaattcgcg cgcgctcgac atatttttcta ataaatactt gagcggtttt tgtctggcag 60
 gcttccaaat ttgccaaaat taagcggtca gtattttcaa cacatacgct ttttactggt 120
 ttatactgaa ctatctgatg agaattcctg tgttcccaaa gcaactgatg tttacagggtc 180
 ttgtgtttct ctcctctctt tctaaggatg aggggaatcca caacagactt tctctagaaa 240
 acactaatga tggacaactt tttggtgtca tcaatgagtt ggctactctc gag 293

<210> 999

<211> 158

<212> DNA

<213> Homo sapiens

<400> 999

gaattcgcg cgcgctcgac cttattcgct gaactcaggc atttccactt gcatgtccca 60
 cagttgagtc aggaccata atttcttctt gctttcccat gctattcctt tccttattga 120
 caaatgccat catcttttct ctcactgcgc cactcgag 158

<210> 1000

<211> 152

<212> DNA

<213> Homo sapiens

<400> 1000

gaattcgcg cgcgctcgac tttttaaatg aggttatatta aatgttaaag aaagttttag 60
 tggctgcatt attgggggta tcttcaactg catttgcagg aggttttcaa attaaagtgg 120
 gtgcgagttt aattgaccca acagcactcg ag 152

<210> 1001

<211> 196

<212> DNA

<213> Homo sapiens

<400> 1001

gtgactctca tctattaacc taagccagaa atcaaggagt catttttagat acttctctcc 60
 actccttata atctggtcag ttcctaataa aatgatggtc atttccctaa tttttctact 120
 tgtctctaaa tttactgcat atgattccat tcccttgat actgctagag tgaatagtca 180
 cctcagcaac ctcgag 196

<210> 1002

<211> 311

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (280)

<400> 1002

gaattcgcg cgcgctcgac aactttttca gcaactaaaa aagccacagg agttgaactg 60
 ctaggattct gactatgctg tgggtggctag tgctcctact cctacctaca ttaaaatctg 120
 ttttttgctt tcttgtaact agcctttacc tctctaacac agaggatctg tcaactgtggc 180
 tctggcccaa acctgacctt cactctggaa cgagaacaga ggtttctacc cacaccgtcc 240
 cctcgaagcc ggggacagcc tcaccttget ggccctctcgn tggagcagtg ccctcaccaa 300
 ctgtcctcga g 311

<210> 1003

<211> 208

<212> DNA

<213> Homo sapiens

<400> 1003

gaattcgcgg ccgcgctcgac gaggaatggt agtattctct tatgaaatag taagtttggt 60
 atcatttgca gttttctggt tatggtctgt cagagcagtg acttcagagg ggcaacctgg 120
 acagttgact gctcccatca ccaaaaccaa actacacaca cacacacgtt cccaaactgc 180
 accaaggcac cccaaagcac cactcgag 208

<210> 1004

<211> 223

<212> DNA

<213> Homo sapiens

<400> 1004

gaattcgcgg ccgcgctcgac agtttttggg ctgtgaattt aatgttttag gaagttccca 60
 ttttaagattc tttaaaatgg tttcttctgt tgtgctttta ttcctttata ttaaaatctt 120
 tgatttatct aaaattactt ttgtgaaaga gtggtatagt gagaatagct ttttagagaa 180
 aacaaaaaca aatggtttga atatttgtcc caacactctc gag 223

<210> 1005

<211> 166

<212> DNA

<213> Homo sapiens

<400> 1005

gaattcgcgg ccgcgctcgac tgggcattac tatgttagtt ggaataactg gactctttta 60
 cactcaacta attggcatca tcacagatac aacatctatt gaaaagatgt caaactgttg 120
 tgaagatata tcgaggcccc gaaagccatg gcagcagcac ctcgag 166

<210> 1006

<211> 175

<212> DNA

<213> Homo sapiens

<400> 1006

gaattcgcgg ccgcgctcgac gaacaacgtg ggctttcatg atgtatgtac ctttctcttt 60
 cttttgttgc atgtggggga cagtattgct tcaactaatg tttattactt taaaacacga 120
 aagggtatgag gaagtaaacc aaaacagtcc acagtcttca aacaggaccc tcgag 175

<210> 1007

<211> 191

<212> DNA

<213> Homo sapiens

<400> 1007

gaattcgcgg ccgcgctcgac gggaaaacaa agaaacaaac tataaaagaa agcaaagaaa 60
 atctttgtga tttgggtgca gagataggac tccaaaaaca taagaaaaaa actggtaaac 120
 tgaataaatt gataaactgg acttcacaaa aattaaatac atttactatg aaaaaaacag 180
 tgctactcga g 191

<210> 1008

<211> 190

<212> DNA

<213> Homo sapiens

<400> 1008

gaattcgcgg ccgcgctcgac ccaggatttc aactatactc atccacagac ttttccatt 60
 gggtagaaat tgaacacagaa ctgacagaac caggatttga ataccagcct tttgactcca 120
 aatcaggggac aagatgcagt tttgtatgtt aattattttt attgggtttg atattgtggc 180
 cccactcgag 190

<210> 1009

<211> 245
 <212> DNA
 <213> Homo sapiens

<400> 1009
 gaattcgcgg ccgcgtcgac ttcaatctct agaggtttgg cagtttcttt ttatcaaatt 60
 ctcccttaaa taagctgcag cctgtgaatc tcaaaataat ggaagtttta aaaacagaaa 120
 gaaaaagatt tttattttta tttttttatt tttatttttt taagacaggg tcttgctctg 180
 ttgccagga tggaatgcag tggcacaatc gcggctcgct gcggcctcaa tctctggggc 240
 tcgag 245

<210> 1010
 <211> 183
 <212> DNA
 <213> Homo sapiens

<400> 1010
 gaattcgcgg ccgcgtcgac tgaagttctg aaaaaaattt taggagattc ctgttttcta 60
 ggggtgctgaa gaaagactac ttaaaatcac tatttaatag tacagtaaatt aggagatacc 120
 tgtattttga actttgcata aaattgatgt ttctttatgg ttaaatttag attaatactc 180
 gag 183

<210> 1011
 <211> 141
 <212> DNA
 <213> Homo sapiens

<400> 1011
 gaattcgcgg ccgcgtcgac ccagactctc atatocatgg ctttcttgtt ttataaaata 60
 gtataacttac tgtgccttaa acagaacttg gatccctctc atttccacta cattctctct 120
 tgtcctcgta aggacctcga g 141

<210> 1012
 <211> 162
 <212> DNA
 <213> Homo sapiens

<400> 1012
 gaattcgcgg ccgcgtcgac cttgtatgtg tcatttgagt ggtttccaga ttggagcgag 60
 gttattctga tctaaatgaa cagcattttt ttctttagcc tctgtttgcc actctgggta 120
 tctctcttat gggcaaagcc attagaaatg catccactcg ag 162

<210> 1013
 <211> 217
 <212> DNA
 <213> Homo sapiens

<400> 1013
 gaattcgcgg ccgcgtcgac atctttttcc tgtggctgct tcaaaaactt tgtctttgag 60
 caatattact attatgtgtc tagatatagt ttcttttttt atccagcttg ggattcttag 120
 aaattcttca tttttagtgc tgatgtcttt tgaaagtttt ggaaaattcc cagtcagaat 180
 atcctcagat catgtttcta tccccaattc tctcgag 217

<210> 1014
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 1014
 gaattcgcgg ccgcgtcgac actgatatac gatagacagc acatatataa aacgtaaaat 60

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ttgataagtt ttggcatatg tatgcacatg caaaaccatc accataatca agaccgataa 120
catacccatc atccataaaa gtctcttcct gtccctttgt attcccttat taagaaacta 180
ctaaatgttt aagtatttgt gctattttcc attcctatca gcagtacatg ataattctcc 240
ttgttccata tcgtctgagc tcgag                                     265

```

<210> 1015
 <211> 127
 <212> DNA
 <213> Homo sapiens

```

<400> 1015
gaattcgcg cgcgctcgac caaggacttt ccccatgtga agtcttcagc agacgagcca 60
cacagttcca agtacatctt aagaagcaca ctctagatgc agaatagaaga ttactattt 120
gctcgag                                     127

```

<210> 1016
 <211> 231
 <212> DNA
 <213> Homo sapiens

```

<400> 1016
gaattcgcg cgcgctcgac gctggctag ttttaaggtt tttaaacagg cattgagaca 60
tctataatgg tctgctgct tttggatctg actcaaactc agccctgcct tctatttttc 120
tttctttttt tttttttttt gaggcagctc tactgtatgg ccgaggctgg agtgcagtgg 180
catgatcttg actcaatgca acctgtcttt cgggttcaag tgattctcga g      231

```

<210> 1017
 <211> 209
 <212> DNA
 <213> Homo sapiens

```

<400> 1017
gaattcgcg cgcgctcgac agcttaatcc tttctagctt ctgatttaaa gtgagagaca 60
tgagactctt cctttcactt gtatacttag gggccattgt cgggttatcc attagcttaa 120
tttcaatatt gttgtgtctc aggagtagga atatccaaag agagggagaa agacttgggg 180
agcagctggg cagtgggaaca actctcgag                                     209

```

<210> 1018
 <211> 205
 <212> DNA
 <213> Homo sapiens

```

<400> 1018
gaattcgcg cgcgctcgac ataacccttt aatggctccc tatgccccag gattaagtcc 60
aaacaccatg gtgtggcatg tgagaaagtc ttcctttgtc tggtctctgc agctcttcag 120
cttcactctc tgccactctg tcactctctg gtccccagtg catgtcccat ggacacagtg 180
tgcagtcata cccccaattc tcgag                                     205

```

<210> 1019
 <211> 218
 <212> DNA
 <213> Homo sapiens

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<400> 1019
gaattcgcg cgcgctcgac cttcatcccc accttccttc tcactctctc tacagtttga 60
tgctgctggg caatttcate cacttcctag gcttcagttc tcaaccatct actgatgatg 120
actcccaaat gtttatccct gccctgacta cctaccctgt atgtctttct gaatataacg 180
ctcttaatcc caactgttta ttatactcat ctctcgag                                     218

```

<210> 1020

<211> 259
 <212> DNA
 <213> Homo sapiens

<400> 1020
 gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt ctagacctgc cattcaaccc 60
 ccctcatcac actctcacac tttctgagct gagatccaca gtaaggaata cactgtttca 120
 tcttcgccct aggcacatac tctcatccgc agctgaaatg cagtttcaga atgtgaatcc 180
 ttatttcacg ttctgtgtgg tgatgttttc tgtttctctc cttgcctcct cctcagcatt 240
 ggctacacac ccactcgag 259

<210> 1021
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 1021
 gaattcgcg cgcgctcgac gccatagga gttgaaaaat cctgctgctc tcagctatat 60
 tttttctcc attatttata aatgtttgct tttaaactga ttttatttc cattctccc 120
 tggagtgagg ccagggggaga gtgggggtgg aagacagatc tcgag 165

<210> 1022
 <211> 195
 <212> DNA
 <213> Homo sapiens

<400> 1022
 gaattcgcg cgcgctcgac ttttaagttc tagagatcgg gtctcgttat gttgcctagg 60
 ttgattttga actcctgggt ctgcctcagt cttccaaaat gttgggatta caggcatgag 120
 ccaccttgcc cttcccgaaa ctgceataat gttttccgta atagctgcat catcttacat 180
 gccccctgtgc tcgag 195

<210> 1023
 <211> 143
 <212> DNA
 <213> Homo sapiens

<400> 1023
 gaattcgcg cgcgctcgac aatcattcca acaatatttc tgtgattgtc tgtaacgaac 60
 tactttttct gatttttgat cagtgatctt tgactataat agaaaagaaa gtttaaatgt 120
 tatggaaggt gctggggctc gag 143

<210> 1024
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 1024
 gaattcgcg cgcgctcgac caggaaagca ttgaattaaa ttatacagta ccattttctc 60
 aggtattgag ctaaaagagaa tggagctaaa attgcectgc tgtcttgtca ttaccctatt 120
 tctaattctg tcattttctt tccaaaaaac tcacgcatac ctcgag 166

<210> 1025
 <211> 164
 <212> DNA
 <213> Homo sapiens

<400> 1025
 gaattcgcg cgcgctcgac attggaaaata tcattccagac agaaagttag caaacatctt 60
 acttaattctg cagtacagac caaatggacc taatagacat ttacagaaca ttttatccaa 120

tggtcgcaga gtacacattc ttcagctcat ggatcattct cgag

164

<210> 1026

<211> 139

<212> DNA

<213> Homo sapiens

<400> 1026

gaattcgcgg ccgcgtcgac tgacattatt atcaattaac attttacttc cttctagctc 60
tctacatttt cattttctca tctcataaat ctcattccct atgatttttt ggtggggatg 120
tgttacttac ggactcgag 139

<210> 1027

<211> 174

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (42)

<220>

<221> unsure

<222> (56)..(57)

<220>

<221> unsure

<222> (61)

<220>

<221> unsure

<222> (64)

<400> 1027

gaattcgcgg ccgcgtcgac caaataccct ggttggttg tncagaagaa gaattnnggc 60
ntanctcaga tacaaaagtg gaaaaagaaa cggctataat ccatggggaa gactttctat 120
ttcttagtct gtctcctgtc ccaaatagtc cagctctcct caccctaaact cgag 174

<210> 1028

<211> 169

<212> DNA

<213> Homo sapiens

<400> 1028

gaattcgcgg ccgcgtcgac gtatatgtta attgagacaa gcagggttgta aaatgacctt 60
ctcttcccat tcttctcatg ttgtcctcaa aaaagatata cttcttttct tcttttttct 120
tttttctttt tttagatatg acagactctc tctgccaccc agactcgag 169

<210> 1029

<211> 265

<212> DNA

<213> Homo sapiens

<400> 1029

gaattcgcgg ccgcgtcgac gagtcttttag agttttcttag gtgaacgata atatcatcca 60
tcagcaaaca gtgagtttga cttctcctt aatgatttgg atgcccttta tttcttttct 120
ttgtctgatt gctctggcta ggacttccag tactatgttg aagaggagtg gtgacagtgg 180
gcattccttgt ctagtccag ttctcagagg gaatgcttct aacttttccc cattcagtat 240
tttgttggct gcaggccatc tcgag 265

<210> 1030
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 1030
 gaattcgcgg ccgcgtcgac ctgagtcgtc taaaattctg cattacagtt gcgattattt 60
 tcctttgata ttacaatttt gatttatgtt ctttataaca cttgtatttt tccttattac 120
 cacatcaata tatattcatt gtggaaaact atgtaaaaat gcagaaaaga atacattaaa 180
 aaataaaaac tcctgcattt tactccttac tgatactctc gag 223

<210> 1031
 <211> 135
 <212> DNA
 <213> Homo sapiens

<400> 1031
 gaattcgcgg ccgcgtcgaca aagcttctga gctcaccaaa caaggatttc agtgtagatt 60
 ttgtctttct tgaacttaaa gaaacaaatg acaaagtctg aatggaaaag cctgctgttg 120
 ttccccacgc tcgag 135

<210> 1032
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 1032
 gaattcgcgg ccgcgtcgac cccggctttt cttggagccc aagagtttct tgagtgtgca 60
 gagaaccctt ctatcatgaa gactttattt agagtcgggc tagggttgtt actgccttta 120
 ccaggcttcg tattcccttc ctctgtgtct ggctacacct ctacagtttc tggccactta 180
 ctcgag 186

<210> 1033
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 1033
 gaattcgcgg ccgcgtcgac gaaaaaaaa gtgccttttg ctgctttaaa gaattgggggt 60
 atatggatg aagcagccat gtacttgtat tttcctggtc tttcctgggc actcttctct 120
 cttggcagat gttttcttaa agtgaacaca ccagaagcgc tcgag 165

<210> 1034
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 1034
 gaattcgcgg ccgcgtcgac ctttgatcca tggaaacatt ttataaaata atttccaaaa 60
 taatttcctg gaaatctgga attgtagtct gtagcaaatt gggattattt attaatattaa 120
 tttaatttaa tttatgagat cagagtcttg gtatgttgcg ttggctgggc tcgaactcct 180
 aggccttgagt gatccttctg cctcagcctc tctagtggct ggaactgtaa gtgcacacca 240
 ccatggcaca aatctcgag 259

<210> 1035
 <211> 205
 <212> DNA
 <213> Homo sapiens

<400> 1035

gaattcgcg cgcgctcgac attatttgcg gtccttttga attcatttgc ctttttcaga 60
ttgtggggca ttgacctggt aatactaaca ataatacaata atatcagtcg gggataaaga 120
cacagataaa ttgcatggaa aaaggatggt ggggggatcc atttctggct gtgtatttcg 180
ctgccttggt gtccttatcc tcgag 205

<210> 1036
<211> 171
<212> DNA
<213> Homo sapiens

<400> 1036
gaattcgcg cgcgctcgac ctgtttgtgg tgagggtgaa ttatgtgtgt ttttcctagc 60
ttagtgtgtg cggtctttct ttttgtttct gagaatgctg tgttgagggg gtttttggag 120
aaaacggtgg ggttggggagg ttgtagtact tcaaacaaag gtgaactcga g 171

<210> 1037
<211> 251
<212> DNA
<213> Homo sapiens

<400> 1037
gaattcgcg cgcgctcgac cgtttttccc acttcaacag ttacttcagg tttaaagtcc 60
tttttatctc tgtaacctgg tgacataaag ccaggaacat tttccacaa tccaccttag 120
cataaacat aacaatttca ttcatcagtt gttattgtgt agaaccaatg aacatgttgg 180
tcatttgcgt gtatttagtc tttatttcta ttgctatatt tgagcattcc aagattgcag 240
agggctcga g 251

<210> 1038
<211> 159
<212> DNA
<213> Homo sapiens

<400> 1038
gaattcgcg cgcgctcgac cccatatatc acaagcaata tgggaagaat aaaaaaagta 60
aacctattat tattatattt gagatattgt ctctctcacc caggctggaa tgcagtgggt 120
caatcacagc tcaactgcag ctcaatctcc aagctcgag 159

<210> 1039
<211> 188
<212> DNA
<213> Homo sapiens

<400> 1039
gaattcgcg cgcgctcgac cttaaatttt tgcattcatta ttgcatatc ttgagacaa 60
caaaaatttg ccttttttga gttttttttt tgttgggtgg atctaaaaga ttcttatatg 120
taaatacaaa tattacagag aaagtgaata tgatagccaa aatgtggatt atgaggatac 180
cactcgag 188

<210> 1040
<211> 207
<212> DNA
<213> Homo sapiens

<400> 1040
gaattcgcg cgcgctcgac taaataaata aattaattaa ttaataaagt aataataata 60
ataaagccca gcctggttgg tgtgctgtag gtagatattc atgttcaagg ctctgtctct 120
tcctgacctc cgaactgttg tcataaaatc attcattcat acactaaacc atttgatatg 180
tatttactga atccctact cctcgag 207

<210> 1041

<211> 177
 <212> DNA
 <213> Homo sapiens

<400> 1041
 gaattcgcgg ccgcgtcgac acccctcacc cccaacccct caaccttata ttaccttgaa 60
 attccaccga tgcctatatcc ggggttctt gcaactttca agtgggtatt atttccgtta 120
 gctttggagg aatattcttg tgatcacgca atcaaccatc atgatatagaa cctcgag 177

<210> 1042
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 1042
 gaattcgcgg ccgcgtcgac ccactttttg gagagtagca aatctagctt tttgtacag 60
 acctagaaat tatctaaaga ttcatcttt ttacctcata tttcttagga atttaagtgt 120
 tatatgttgt ctttttttcc tatgtctttt ggtcaagca acgtcgctcg ag 172

<210> 1043
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 1043
 gaattcgcgg ccgcgtcgac cagtcaggcg ctgtggctca cgcctgtgat ccagcactt 60
 tgggagggcg aggtgggcag atcgccctggg gtcgggagtt tgagaccagc ctgaccgaca 120
 tggagaaacc catctctgct aaaaatgcaa aattggccgg gtgtgggtggc atgtgectgt 180
 ggtcccggct actcgggagg ctgaggcggg aggatcgctt gaacctgggg ggcggagggtt 240
 gagggtggca gatcgccctgg ggtcgggagt ttgagaccag cctgaccgac atggagaaac 300
 ccatctctgc taaaaatgca aaattggcgg ggtgtggtgg catgtgcttg tggccccggc 360
 tactaggagg tgctcgag 378

<210> 1044
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 1044
 gaattcgcgg ccgcgtcgac cgttcgattg agttgggggtg gaactctggc gtcttctcag 60
 gtgggttaaag gaaccagcgc ttacgaccgt agatcacttc tgagtaccgg ggtccatgcc 120
 agtggaaagg cacccccagag ccagctcctg cgattccaaa gctgtaagct ggagcgggtc 180
 ccagcaggcc aaatgggggt ggggagtagt gccgaaagag agaggccac tcggtgaagt 240
 tgttgtcccc gaagaagtac aggggtgcat tgcccaggga ggtgggggtcc tgggggtgca 300
 gcagctgctc cacatactcc tggaagggca agtccacttt gtggtaggag taggtgttgg 360
 cgggtgctcag ccggaccact ctgtcccccac acgaagccag caacctgtcg cgggagcaca 420
 gggccccgaa cctcgag 437

<210> 1045
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 1045
 gaattcgcgg ccgcgtcgac gcggggattc ttggcgccat tgtgtgccgt gggcgtctcg 60
 tacaccgcgt agcccaggcg cagtcggcag taggggtcca tgcgggtcat gccgtaattc 120
 ttggccaaact ttgcctgtac caccgtgatg ttacgtcggc ccacgggtgc cactgcgcct 180
 ccgtactgca gctgctgggc cgccctgggc tccagctgga cctgcccgtg ctgctgtgtg 240
 ggcgtgatgc ggaggaaagt ctgcgggagc tcaccgatgt acaccggccc gcgctgagtg 300
 ctgacgggtg tcgccatggt gctgcggcgg cccccgtggc tcgccgacc gacagtgacg 360

cgccggggcga cctcctgcgc ccccgccgga gcctgcgacg gagacagttg tcacctcgag 420

<210> 1046

<211> 424

<212> DNA

<213> Homo sapiens

<400> 1046

gaattcgagg ccgcgtcgac tgtcgtctta agtgggtattt taaggatgct gactgcgtgc 60
 cggcatagtc acagtgcgga cacttgtagg gtttctcacc tgaggaggat ggcgaggagg 120
 ggtgcgggct gtctcctctg gcactcccgg tctgggagag gccgcctccg accccgctct 180
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 cactgcccga gccacgccgc tcattccaggc ccacgtgcag cccatcctcc tcgcccctgc 300
 ggtcccgtct gtggacacgg gagtgcacga ccacctgggt gtaagtgcgg aacacccggc 360
 cgcagtcggg gcactcgggt ggcttctcct tcattgtccc aggacctgc aggttatact 420
 cgag 424

<210> 1047

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (251)

<400> 1047

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 ctgctcacag gtgaggtgag ctatgctggg ctgggtgatg aaccagatgg gaggaggtgg 180
 tgagacaggg ggagagccag gtgccaggga tagctgtctc ctgttctggc accagcaatg 240
 agaaaataaa nacaccacag agtgtggcag caatcgtctg gggagggaca cacttggtgg 300
 tgcgggcagg tggggcagtg ggggttcaag tgttcaggtt ggacacacac cacccttgag 360
 atgactacga aagacccaag ggtgggcgtt aaataggggg ctggatacat aggtctggag 420
 ctacagagga cgcgccagga aggaatggg agatgataga atgggaattt tctcgag 477

<210> 1048

<211> 192

<212> DNA

<213> Homo sapiens

<400> 1048

gaattcgagg ccgcgtcgac catgaaccca atccggagaa ggttccaggc ggtccccac 60
 cctccccctc tctcctact tctcctcttg acagcgagga caggaggggg acaaggggac 120
 acctgggcag accgcgggc tctcccccca cccaccccg cccctccat catactccaa 180
 ccaaacctcg ag 192

<210> 1049

<211> 366

<212> DNA

<213> Homo sapiens

<400> 1049

gaattcgagg ccgcgtcgac gttttctctt togatatata tgtctctgtt tttctctgtt 60
 tctacctcct tctctctcca ctgtttcttt ctgcttttat ctttctctct ccttctctct 120
 ctcccgctga tctccagtgc catggggggc cctgtgctgg gggcgccagg agagccacct 180
 ggagccacgc ctgtgtctcc ggctttgggg agggtcgggt ggttggtgag tgcacgggtg 240
 gcgtgtctcc acgcgccccg ggcgcacgca ctccccgggt ctgggatttg gctggcagta 300
 cctgccccg ccccgccggt cgcgcgcccc gccaccaggc atcgcttggg agagggttac 360
 ctcgag 366

<210> 1050
 <211> 535
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (104)

<400> 1050
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 aactgtttgt gctgccgcat tgctcccgcc gggctgtagc tganccgga gcccggtgg 120
 gccggtgagt ttgagttcct gagatctagt tggtagaga catgatgttc taccggttg 180
 tgtcgattgt tggaaagaca agagccagcc caggatggca gaactggtcc tctgcaaga 240
 acagcgcac agctgccgag gcgcgttcca tggccttgc caccagga caggtggtcg 300
 tctgtggagg tggaaacacg ggcacttctg tggcccatca ccaatccaaa atggggtgga 360
 aggataattgt ccttttggag cagggcaggc tggctgctgg ctctaccagg ttctgtgctg 420
 gcatcctgag cactgccagg cacttgacca ttgagcagaa gatggcagac tactcaaaca 480
 aactctacca tcagtttagag caagaaacag ggateccgaac agggtaaac tcgag 535

<210> 1051
 <211> 303
 <212> DNA
 <213> Homo sapiens

<400> 1051
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 cagggttaatg acaacaccaa cacagcgggg tcccctgggg aggtgctctc tcgccggtgt 120
 gtgaaccttc tgaagactgc gttgcggcca gacatgtggc ccaagtccga actcaagctg 180
 cagtgggttc acaagctgct gatgactgtg gagcagccaa accaagtga ctatgggaat 240
 atctgcacgg gcctagaagt gctgagcttc ctgctaactg tcctccagtc cccaggcctc 300
 gag 303

<210> 1052
 <211> 533
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (286)

<400> 1052
 gaattcgcgg ccgcgtcgac tgatgaagaa gcacaaggct gccgtggctc aggcttccc 60
 ggacctggct cagataaatg atctccaagc tcagctagaa gaagccaaca aagagaagca 120
 ggagctgcag gagaagctac aagccctcca gagccagggt gagttcctgg agcagtcct 180
 ggtggacaag tccctggtga gcaggcagga agctaagata cgggagctgg agacacgcct 240
 ggagtttgaa aggacgcca gtgaaacggc tggagagcct ggctancct ctcaaggaaa 300
 acatggagaa gctgactgag gagcgggac agcgcatctg agccgagaac cgggagaagg 360
 aacagaacaa gcggctacag aggcagctcc gggacaccaa ggaggagatg ggcgagcttg 420
 ccaggaagga ggccgaggcg agccgcaaga agcacgaact ggagatggat ctgaaagcc 480
 tggagggtgc taaccagagc ctgcaggctg acctaaagt ggcatctctc gag 533

<210> 1053
 <211> 531
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure

<222> (511)

<400> 1053

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gaattcgcg cgcgctcgac cgcggccgcg tcgactcccc aaggaaaatc ttttcagctt 60
ccagacagca accacaacta tgcaagccat ctccggtgttc aggggctacg cggagaggaa 120
gcgcgggaaa cgggagaatg attccgcgtc tgtaatccag aggaacttcc gcaaacacct 180
gcgcattggtc ggcagccgga ggggtgaaggc ccagacgttc gctgagcggc gcgagcggag 240
cttcagccgg tcctggagcg accccacccc catgaaagcc gacacttccc acgactcccg 300
agacagcagt gacctgcaga gctcccactg cacgctggac gaggccttcg aggacctgga 360
ctgggacact gagaagggcc tggaggctgt ggcctgcgac accgaaggct tcgtgccacc 420
aaagggtcatg ctcatctcct ccaagggtgcc caaggctgag tacatcccca ctatcatccg 480
ccgggatgac cctccatca tccccatcct nctacgacca tgaagctcga g 531

```

<210> 1054

<211> 454

<212> DNA

<213> Homo sapiens

<400> 1054

```

gaattcgcg cgcgctcgac ggcgcttgcc tgtaatccca gctcctcagg gggctgagac 60
aggagaatcg cttgaacctg ggaggtggag gctgcagtga gctgagatcg cggcactgca 120
ccccagcctg ggctacagag tgagacttgg tctcaaaaaa aaaaaaaaaa acaataaac 180
aaacaaaaaa caacaacaaa aaacaccctg ggtactattc catcaaatga aggtactgtg 240
agttatctaa tcagttccct gttgaggggc attttgattg tttcatgtcc tttactctta 300
ggaacagtga tgcagtgaat atcctggtgg atatttaata gacgttctct gatttgacct 360
tgccctggatg gagatgcatg gataatagac gctctgtgtt tctgctgccc attatactcc 420
aaacacttgc agccctgtcg tcagtgcgct cgag 454

```

<210> 1055

<211> 435

<212> DNA

<213> Homo sapiens

<400> 1055

```

gaattcgcg cgcgctcgac cgcccccgcc cccgccccgc tcccagaggg tcccagcctg 60
gccccgtgaaa gggcactggc ggttccccgt gagccgatgt ctccatgccc ggctcctggg 120
ggctcctcctt tttgcccagg cgaggaaacg ggcttggggg tcaggaagca gcccgaagcc 180
cgccttggga ggtgacatca ccagggtcta ccttccacaa acacatttaa caacagacaa 240
aacgtgaacg aggagaaact ggagtggagc tttgaaccag ccacagtctc tacgtgtcat 300
ccaaggagcc cggcacagac cccgtgtcac ccccatgtca cccgcagacc ccgcgtcacc 360
catagatacg cacaccccggt gtcacccccca tgtcacccgc gtgtcaccca cagatacacg 420
gcccccgtag tcgag 435

```

<210> 1056

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (20)

<220>

<221> unsure

<222> (134)..(135)

<400> 1056

```

gaattcgcg cgcgctcgan tgggcgtggt ggcattgcgtc tgtaatctcg gctactcggg 60
aggctgagac aggagaattg cttgtacctg ggaggcagag gttgcagtga gtgagatcaa 120
gtgtgtgcac tccnncctgg gcgagagagc gagactttgc ctcaaaaaac aacaaaaaaa 180

```



```

acaacacta tggtttctgt cttggtaatt ctctctctca aatcacttgc tctggaggaa 240
tcaagctatc atgttgagaa cagcctaatt cagaggcctt catagtgagg aactgaaacc 300
tcctaccaat aacctatgtga tgattttgtag gcaaatcctt caattcaaat caagctttca 360
gatgactact atcttagcca gtaccttacc tgcaaaactca agagggaccc taagccagaa 420
tcaaacaact atgcctctga ttcttgaccc tcggaactgt gaaataacat ttgttggttt 480
aaatcgctaa gtttaagggt ttgttacgea ctgatagata atacaggacc actactcgag 540

```

<210> 1057

<211> 703

<212> DNA

<213> Homo sapiens

<400> 1057

```

gaattcgcgg ccgcgtcgac agggaaacata tcttttttct agagcctctg tgtgctgggt 60
tactgtatac ttcccttgac agtagcaatg ctgatttgcc ggctgggtact tttggctgat 120
ccaggacctg taaacttcac ggttcggctt tttgtggtga ttgtgatgtt tgcttggtct 180
atagttgcct ccacagcttt ccttgctgat agccagcctc caaacgcgag agccctagct 240
gtttatctct ttttctgtt ttactttgtc atcagttgga tgattctcac ctttactcct 300
cagtaaatca ggaatgggaa attaaaaacc agtgaattga aagcacatct gaaagatgca 360
attcaccatg gagctttgtc tctggccctt atttgtctaa ttttggaggt atttgataac 420
tgagttagtg aggagattaa aaggagacca tatagcactg tcacccctta tttgaggaac 480
tgatgtttga aaggctgttc ttttctctct taatgtcatt tctttaaaaa tacatgtgca 540
tactacacac agtatataat gcttccttaa ggcattgatg agtcaccgtg gtccatttgg 600
gtgacaacca gtgacttggg aagcacatag atacatctta caagttgaat agagttgata 660
actattttca gttttgagaa taccagtcca ggcagagctc gag 703

```

<210> 1058

<211> 263

<212> DNA

<213> Homo sapiens

<400> 1058

```

gaattcgcgg ccgcgtcgac ccctgtctca aaacaaaaaa ccttccttta atcttacatc 60
agatgtgtgg gtttttaaaa ttatttatgt gttttattta ttttatttta ttgagacgga 120
gtcttgctct gttgcctggg ctggagggca gtggcatgat ctcggtcac tgcaacctct 180
gcctcccatg ttcgagcggg tctctgctc cagcctccca agtagctggg attacaggtg 240
cccgccacca caccgaactc gag 263

```

<210> 1059

<211> 316

<212> DNA

<213> Homo sapiens

<400> 1059

```

gaattcgcgg ccgcgtcgac ccagcatctc tcaacagtct cagctcgctc attottaaga 60
tgtcagctta aatgttatct cttcagaggc ccccatgttc tctcttgcaa tggcctgttc 120
tattccatta ggggactttg ccataatatg catatttggt taaaagttcc atgagagcag 180
aggttttgtt tcctttatcc ctccatacac agcaactgga acaatacaat gcatagagta 240
aacatgcaac agataacctg aaggaaatgt gtttcatgcc ttcattcctt cctatacatt 300
attgtcccc ctcgag 316

```

<210> 1060

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (27)..(29)

<400> 1060

```

gaattcgcg cgcgctcgac ttgaatnnna gacatgcctg ctcaccccc actgcactaa 60
cctaaataat ctctgattat tttctttttc tcttgctact accaaattct gttcttgagt 120
gaggaagcag cttgggttaa aaacaaaagc cctgatatgt atatatattt ttttctctga 180
agaataccat caggatgaag gctatgatta atacacataa ttgctacaaa tggcagctaa 240
ctgcagaaaa ccacctccca gctgttggag gaaggaaatt gctgacagcc actccccatt 300
gggtggctac caaaagagag gagctcacag gagcaggaga gaatacacat ctccatccca 360
cgtgacccat agagatgacc cattaggctc gag                                     393

```

<210> 1061

<211> 247

<212> DNA

<213> Homo sapiens

<400> 1061

```

gaattcgcg cgcgctcgac gctaaacgga ctgtttttat tgtagtaaaa gagctttgta 60
aattaaccaa ttaattttta agccctaaat aagcttttct gtgcatttga gatctagaag 120
atacagcttt attaatctga tctaaatttc tgaagggggc ttgtatttct gtaatcagtg 180
atatcagtag tcaactgttg gcaaagggca ttttttaaaa gaaatgcaca tagcaggctt 240
tctcgag                                     247

```

<210> 1062

<211> 240

<212> DNA

<213> Homo sapiens

<400> 1062

```

gaattcgcg cgcgctcgac aaaatagccc tggaagtgtg gccttcagct cctctaccca 60
cagctgacta aaaacatttg caagtttctc acctaggctg ttgtcacccg aatataaatg 120
agaccattt ctggccagaa aacttcagct atcacagtct acatttgtat gagttgcttg 180
gctgttttct caagcaaaaag aagggtgcag gtctcatgta tttcccccca acacctcgag 240

```

<210> 1063

<211> 429

<212> DNA

<213> Homo sapiens

<400> 1063

```

gaattcgcg cgcgctcgac gtgggagcgg aggtagggga gctcagaggc aggaagcatt 60
ttcggcaaac cactgcagag taggcatgtc atccctccca ccagcactgg gggagcccaa 120
tgcccaccac ggacaagggg tgccagacac ttgaactagc agccaaggaa gtccctacca 180
tctcatgatg aggagcataa aggtgggtgt atgtgcaact gcctagaggc agataaataa 240
atgtgaaggc aaagtgggcc aaggaagcaa gaggtggaaa agaccaacaa aattcaacta 300
acttccctcc ccagtcacac actatgctaa ccccttctgc cactgggcca actgcagaga 360
taaaaatgcc agtgactcac tccagggttg gctcttgagg ctgccacaag cctgatactc 420
agcctcgag                                     429

```

<210> 1064

<211> 210

<212> DNA

<213> Homo sapiens

<400> 1064

```

gaattcgcg cgcgctcgac gaatgggatg cataccatag acgaacgagg cggagactat 60
tgcggggaatc ttactgttca ggagctgttc ctagaactaa ctcccttact gtcattgatg 120
tgcatccac tctgtgcttt tctgtacaac cattcaagtt ttaatttccc aggtgaacca 180
tctttatctg ccattaccac aagcctcgag                                     210

```

<210> 1065

<211> 262

<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (138)

<400> 1065
gaagaaaatg aagcacctgt ggttcctcct cctgctggtg gcggctccct tacgggtcct 60
gtcccagggtg cagctgtatg agtcggggccc agggctgatg aagccctccg agaccctgtc 120
cctcacctgc ggtgtctntg gtggctccct cagtgggtgt gccgacttct ggggctgggt 180
ccgccaggcc ccgggaagg ggcttgagtg gattggcaat atgcaccatc gtggaaatgc 240
ccattacaat ccgtccctcg ag 262

<210> 1066
<211> 262
<212> DNA
<213> Homo sapiens

<400> 1066
gaattcgcgg ccgcgtcgac ggaccggcgg cgtgttgttg gcgttctaga ccttgaacga 60
cgggcgggta ctgggtggcgt tctggatctg gatcgcttc tgetcaactgg ggaatgctctt 120
gaccgggac ttcgtcgagt cactgaagtc ctggacctg accgtctccg gctgactggt 180
gaagtccgag atctggacct acgtcggctt atcagggggg ttctggacct ggaatcgccg 240
tgagtggctg gagaggctcg ag 262

<210> 1067
<211> 123
<212> DNA
<213> Homo sapiens

<400> 1067
gaattcgcgg ccgcgtcgac cgtcgattga attctagacc tgcctcgagt tctcaattct 60
gttaacaatt taaaatttca ttaattgtgt ttaatatcaa tgaatctcaa aaggctcctc 120
gag 123

<210> 1068
<211> 265
<212> DNA
<213> Homo sapiens

<400> 1068
gaattcgcgg ccgcgtcgac ggggttctgt ttccatacaa cattgtttat ttccgattcc 60
tcagaagatc ctttattatg aataacctca gtgtaatggt aatttccgt ccccatgtca 120
aaattgtcac cctaagcctt tttttttttt tttttttttt ggagacgggc tcaactctgtc 180
agccacgctg gagtgcagt acatgatctt gactcatggc aggcttgacc tcctgggctc 240
aaggaccacc tccaagcac tcgag 265

<210> 1069
<211> 153
<212> DNA
<213> Homo sapiens

<400> 1069
gaattcgcgg ccgcgtcgac gattgtagat attgggctgt taattgtcag ttcagtgttt 60
taatctgacg caggcttatg cggaggagaa tgttttcatt ttaacttatac taacattagt 120
tcttctatag ggtgatagat tggccactc gag 153

<210> 1070
<211> 563

<212> DNA

<213> Homo sapiens

<400> 1070

```
gaattcgcgg ccgcgtcgac agggcacttc ctctaagtaa acacaaatat ttctgtagtg 60
aactgtatgc atattccac tgagtaaagg ttataagaag cctcaggtca ggtcttacca 120
ccaaacttga aaacacttgg aatgcagctg ggcagggact tgagcaggtt ttgtcttgat 180
aagcaggtaa gaatggcaga aacttggttt attgtcaacc aatgtttttt tatataacctg 240
aagtattcat tgaattctag acctgcctcg agtatgggga gatgggaaaa ggcaggttag 300
gggcatgcag gctcagggaa cagggtcttg gtgggtggat ggatagccat ggaggcagaa 360
agaggcctct gcaggaagaa cctgggagag cggagaggag gtggtgaggc aggggagcac 420
tatggaatgg ccttgaggcc aggaggggct caggatgacc aggcaaaagc acagctggtc 480
caggatggag gggaggcctg cacagcatga gcaggaggct agaggagaca gaccatgagg 540
ccctgggaga ccctcactc gag 563
```

<210> 1071

<211> 511

<212> DNA

<213> Homo sapiens

<400> 1071

```
gaattcgcgg ccgcgtcgac gtgatgccc tctagtctca gtgaatttaa cctgtgattt 60
tatgtctacg tatattgttc ctttactgaa ccaccacat gcgggccata aaatgagtga 120
aatcacagtg caccctgttc tcttattttt gaagtgttcc acgatttcca gcatgtccat 180
cagatggggg gattgctaac ttctctctta ctcattgtac tacattctgt agttctcatt 240
gcatcacttt ggatgtttac ttgaaaagc agaaactgtc tctttaaaact tggccctcaa 300
tgtcatttgc gtatctctga gaacaatagc tatgtccac cccagtttgt atttccgttg 360
gttggtggca cttttttctc attcccccat ctcattacct tgtctgtttt ctggcactca 420
ctataatcag ccttgcaacta gagctgtttg tggacttggc ttcacccctt cctcctcagc 480
cctccccac ccattaaatt gcgagctoga g 511
```

<210> 1072

<211> 339

<212> DNA

<213> Homo sapiens

<400> 1072

```
gaattcgcgg ccgcgtcgac agggcatcga gagtagtggg aacgtgggtat gagatcaggt 60
tggaaagggt aatgaagatt gaaaaaaaaa agacggcaaa tagagtagat gctgctagac 120
caattaggaa acttctagtt caggcaagag ataatgatag cataggttga ggacaggtgt 180
tggtgatggt gatgcaaaga gcgttaggat tctgagatat ttggcaggta ctgttgatag 240
gtggagtggg ggtagaagag aaagatcatg agtttgactt tagatatgtt aagtttgatc 300
taccttgaag acatccaaga gaagacaccg ggactcgag 339
```

<210> 1073

<211> 226

<212> DNA

<213> Homo sapiens

<400> 1073

```
gaattcgcgg ccgcgtcgac ttgatattc tattccattt ttttcagtct tctttgcctt 60
tgctcttcaa ttttgaaggt ttctattgac acatcctcaa gctcagagac tctgcttagc 120
catgtccggc ctactaatga gcccatcaaa agcattcttc acttotgtca cagtattttg 180
ctctgtatca tttctttttt attctttctt agaacttccg ctcgag 226
```

<210> 1074

<211> 186

<212> DNA

<213> Homo sapiens

<400> 1074
gaattcgcgg ccgcgtcgac gcagatgtcc atttcaacag gcttaagtgc aaccatgaat 60
ggaatcatcg aatctttgat tcttcctgga ataataagta ttcattcctgt tgtaagaaac 120
ctggctgttt tatgcttggg atgctgtgga ctacagaatc aggattttgc aaggaaacac 180
ctcgag 186

<210> 1075
<211> 247
<212> DNA
<213> Homo sapiens

<400> 1075
gaattcgcgg ccgcgtcgac ggtagggatc caccacatat atttataggc ttccagagtg 60
gcttagccat tttgaaacca gtcatattct atttggcatg cttctagctt taacaattaa 120
ccttcttaca ttaatacatg ctttgaatcc agagagtatc tgctgctttg gatctgaaat 180
ggactggcag atctgcggag ctacagcaga gaaaaaatc tggggagaaat taaaagtctt 240
ccctata 247

<210> 1076
<211> 222
<212> DNA
<213> Homo sapiens

<400> 1076
gaattcgcgg ccgcgtcgac atacctccat ttgcaaacaa aatttcattc ccacttcttg 60
agtccatcca gattgctgct ccaaccttcc tctgctctct gctaaatatt accgctctag 120
tggtagcttc ctattggcat actaactgct gctatttctt ccattcttga aacaggaata 180
acaaattaac ttatcatgat tctacttccc caaatactcg ag 222

<210> 1077
<211> 167
<212> DNA
<213> Homo sapiens

<400> 1077
gaattcgcgg ccgcgtcgac ggtaaagggtg aagtcagctt tttctagctt acagtctctgt 60
catccagttc ctgagctaaa ataggcgcta cagttctgat tttggctttg tcatttgagt 120
ctctggctct tttctgtatg ggtcaagcta gaaggggaca actcgag 167

<210> 1078
<211> 170
<212> DNA
<213> Homo sapiens

<400> 1078
gaattcgcgg tcgcgtcgac atatatattgt atttttgtat gctttggaaa aagacaggaa 60
ataaacacca aaatgttgcc agtaggtatc tctgtgttaa gattagtgtt attattttct 120
ttctctgact tttctgtatt tcccaactgt tatataatga gcgactcgag 170

<210> 1079
<211> 225
<212> DNA
<213> Homo sapiens

<400> 1079
gaattcgcgg ccgcgtcgac ctaatgcate acagcattct ttgaaatgga accagacaca 60
gcctgcctct caatcctcag ctgggggctc ctacagacct cttgtattta ctacagagttg 120
acacatcaca cagatcctgt ttggcattcc taccttacgg acgtctcagg ggtgacagga 180
ccagggcaga gccccggtac aaacagacaa ggctgcaatc tcgag 225

<210> 1080

<211> 214

<212> DNA

<213> Homo sapiens

<400> 1080

```

gaattcgcg ccgcgtcgac cgcattgtcca gtgggctggg aagcaagcac ttgaagagaa 60
ggaaggggag aaaggggtccc ccttgctgtc tgccctctgag gaatggaaat cctttagacc 120
cggccttttt tggaccaata taaatttaaat ttaaattgac agccttccat ttttcgagaa 180
agtacaaaaca gaactgcttt agcaccact cgag                                     214

```

<210> 1081

<211> 102

<212> DNA

<213> Homo sapiens

<400> 1081

```

gaattcgcg ccgcgtcgac gtgggtgtctc tacaatactg tgctttttct ctccattaac 60
ataatgcac tgagagtact tctccttcag catgttctcg ag                                     102

```

<210> 1082

<211> 273

<212> DNA

<213> Homo sapiens

<400> 1082

```

gaattcgcg ccgcgtcgac agccaatata tttcatttta aagcaagcaa taaaaactta 60
tttcgtgttt taatattttt attgacttta aaaagacttt gaacttagtg aaagagaatc 120
agtcacctag aaatgtactg ctctcatcta gctgggaagg tcattgtaat tttcttctat 180
atagatttgt ttgctctaga taagcggctc aatttgaata gatttttagt ggtagaaaga 240
gatgacggaa gcacattaat ggaacaactc gag                                     273

```

<210> 1083

<211> 264

<212> DNA

<213> Homo sapiens

<400> 1083

```

gaaattcgcg gccgcgtcga ccctaaacgg tcgattgaat tctagacctg cctgctttcc 60
tgccctgcccc acctgacctc tattgtgtgg gccttttttt gtttgtttca ttcattgttt 120
tttttttttt aattatttta aatgagattt ttgttttttt taaatgcaat atctctgtat 180
acagactggc tgggccccac cccctgcgtg tggccctccc acagtatttt gtgcaatgaa 240
gccctgctcc cagccactct cgag                                     264

```

<210> 1084

<211> 383

<212> DNA

<213> Homo sapiens

<400> 1084

```

gaattcgcg ccgcgtcgac caacagccag tttggcctcg tggacatccc tgtggagttc 60
aagctgggtc ttgcccaggt cctgctcctg gacttctgcc tggcgctcct ggccgaccgc 120
gtcctgcagt tcttcctggg gaccccgagg ctgaaagtgc ctctctgaga tggcagtgtc 180
ggtacccact gccaccctg gctgcgcgtg ggcgggaacc ccaacagggc cccgggaggg 240
aaccctgccc ccaacccccc acagcaaggc tgtacagtct cgcccttggg agactgagct 300
gggaccccca cagccatccg ctggccttggc cagcagaacc agccccaagc cagcaccctt 360
ggtaaataaa gcagcaactc gag                                     383

```

<210> 1085

<211> 282

<212> DNA
<213> Homo sapiens

<400> 1085
gaattcgcgg ccgcgctcgac ctttgagatt gtcacttctg tacataaacc acctttgtga 60
ggctctttct ataaatacat attgtttaaa aaaaagcaag aaaaaaagga aaacaaagga 120
aaatatcccc aaagttgttt tctagatttg tggctttaag aaaaacaaaa caaaacaaac 180
acattgtttt tctcagaacc aggattctct gagaggtcag agcatctcgc tgtttttttg 240
ttgttggtttt aaaatattat gatttggtta cttgcactcg ag 282

<210> 1086
<211> 184
<212> DNA
<213> Homo sapiens

<400> 1086
gaattcgcgg ccgcgctcgac cctgtttatt agaaagtga gagaggatga ttatgttcct 60
tcattcctctc agtgtcttag tactccctac acctgcgtta tgttatgacc tacctttgcg 120
atctgccagt tttgggggtca gcttaagtga gaattcatat tctgcttcac tggaatcact 180
cgag 184

<210> 1087
<211> 190
<212> DNA
<213> Homo sapiens

<400> 1087
gaattcgcgg ccgcgctcgac gtgagtcacc atgccgggt attgctttct tatattgaca 60
gtgggtttgt actctctcta tgtcctacgg cactgccatc agatgggtggg aaattatgac 120
aggttgtttg tgggtatcct gtagctaagt aatacctagc gaggaatca ggattagaaa 180
ataactcgag 190

<210> 1088
<211> 110
<212> DNA
<213> Homo sapiens

<400> 1088
gaattcgcgg ccgcgctcgac caaataataa aattgttcaa caggaagctt tcttggccag 60
gtttctccac caaatccata atgctgatgt cctttgcccc tatgctcgag 110

<210> 1089
<211> 226
<212> DNA
<213> Homo sapiens

<400> 1089
gaattcgcgg ccgcgctcgac ctgtaataag cattataatt cctgttctta aaataataag 60
ttcattttaag gaaaaggggg tgaaaggaaa aatctgcaga atttaggtct gagataatac 120
catttcaaag cactgtgata caaattactt atatatgtta tatactgtgt gtgtgttaac 180
tacttttatt tggggggttg ttttgcatac atgtgaaggt ctcgag 226

<210> 1090
<211> 267
<212> DNA
<213> Homo sapiens

<400> 1090
gaattcgcgg ccgcgctcgac ggcaggataa aacaacatag aaaatataaa acaatttttg 60
ctttgaaaaa tacagtgacg gtgaccattt actgcttatt ctgtaatcct tactgtctat 120
aattaacttc agtaacactg aaacttgatg aaaagtttta aaaaattatt tactgtaggg 180

acaaagttat atggaatgtt gttattttct atactatctg aatgcactgc cagtgaagac 240
tgtaaagaca gaacacaaac actcgag 267

<210> 1091
<211> 186
<212> DNA
<213> Homo sapiens

<400> 1091
gaattcgcgg ccgcgtcgac gtcattttgc tttttccct ctggtgaaaa atcattcctt 60
ttttatcccg tggcatatat atgtttgcct ttataaatta ggatcaattt ttgtatgttt 120
aggcagtcac ttttactttg cgtttttcta ttctgtttta aaagcattta tggccaaaaa 180
ctcgag 186

<210> 1092
<211> 282
<212> DNA
<213> Homo sapiens

<400> 1092
gaattcgcgg ccgcgtcgac gtggtctact cgtggataag ttcaaactaa atggatggga 60
aaaaatataa catcctaaca ttcataaagg aaagctgaag tggttacatt agaacaagca 120
atgtttgctaa ggataagatg agacatttca taatgataaa tgggtgaatt catcaagaaa 180
acagttctaa acaggtgtgt acctaattac agtttcaaaa tacatgaagt aaaatctgct 240
ctcattgaaa ggaaaaatat ataaaatcaa aatctactcg ag 282

<210> 1093
<211> 208
<212> DNA
<213> Homo sapiens

<400> 1093
gaattcgcgg ccgcgtcgac gccttctatt gtgctttgtt tttgctgact tttctgcacc 60
ctgtttcctt tggatattca gttctctcaa cctcaagatt gagacggtgg tgggtatgct 120
ttccacttc catatgacct tcatgctgtt ctggaatata acatgctacg aggtcatcct 180
tcacactact tgtaagccaa cactcgag 208

<210> 1094
<211> 187
<212> DNA
<213> Homo sapiens

<400> 1094
gaattcgcgg ccgcgtcgac ccttaatgcc atccttcatt gtctttctgg cttctcttct 60
tctggcacag taccattttg ggtctgtgcc ccagtgtgga gcaaaacatt gcctgtccca 120
ttctgatata cttcagaatt tgagagcaga agttaatgtg gaacaaaagt tttcaccatc 180
tctcgag 187

<210> 1095
<211> 221
<212> DNA
<213> Homo sapiens

<400> 1095
gaattcgcgg ccgcgtcgac ggcactgttt tttttttaa cagttaagta ctgatgtcaa 60
cagacaaata tttctgatca gatagtcccc tgtcaacagt agcaaatgtg gtttcataaa 120
gtgggaagaa aacagcattt taaagtaact ttttgggaga ctgatttgag taataataaa 180
actctggtct cccttaagaa aaaaaaaccc ttccgctcga g 221

<210> 1096

<211> 241
<212> DNA
<213> Homo sapiens

<400> 1096
gaattcgcg cgcgctcgac tataaataga tttttttgtt gaatgttaat tcagttatat 60
attttcttct tgatatgttc tttagttgat gcaggccagt taaaatgagt gacttcaagt 120
tttagagaaa tacataacaa tgtcagttta taattatttt gttttttata caatttacta 180
ttttagaatc tcattcatat tccattgtat ttccatgaat gatactttgg gacaactcga 240
g 241

<210> 1097
<211> 192
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (29)

<400> 1097
gaattcgcg cgcgctcgac gagacacena aatccagtc gtatctaate tggcttttgt 60
taacttccct caggagcaga cattcatata ggtgatactg tatttcagtc ctttcttttg 120
accccagaag cccctagactg agaagataaa atggtcaggt tgttggggaa aaaaaaagtg 180
ctggctctcg ag 192

<210> 1098
<211> 190
<212> DNA
<213> Homo sapiens

<400> 1098
gaattcgcg cgcgctcgac cgtcgattga attctagacc tgcctcgaga tgetccttct 60
taacgtgctg gcctctgtgc tcatggcctg catgacgctg ctgcccacct ggttgggagg 120
cgctccccc ggcctcccg gcccgcacat ctctcgcgc tgcggctcct ataaccctcc 180
cccactcgag 190

<210> 1099
<211> 152
<212> DNA
<213> Homo sapiens

<400> 1099
gaattcgcg cgcgctcgac gtgttggttg tttgtcagac tttctgaaa gtttggagtt 60
aatgggagat gagaaagcat attgaaagaa tacttttctt tttttttaat tattattatt 120
atactttaag ttttagggta cgagcactcg ag 152

<210> 1100
<211> 295
<212> DNA
<213> Homo sapiens

<400> 1100
gaattcgcg cgcgctcgac ccccgatcca ggcacctggc cctcagcggg cccacctttg 60
gtatcattgt gaagcacttc cccaagctgc tgcccaaggt cctgggtccag ggcactgtct 120
ttgcccgcat ggccctgag cagaagacag agctgggtgt cgagctacag aagcttcagt 180
actgcgtggg catgtgcgga gacggcgcca atgactgtgg ggccctgaag gcggctgatg 240
tcggcatctc gctgtcccag gcagaagcct cagtgggtct acccttcacc tcgag 295

<210> 1101

<211> 259
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (32)

<220>
 <221> unsure
 <222> (48)

<220>
 <221> unsure
 <222> (66)

<220>
 <221> unsure
 <222> (205)

<220>
 <221> unsure
 <222> (212)

<400> 1101
 gaattcgcg cgcgctcgac tattggagtg cnaagtgcgtg tgattgtngg tggaattgat 60
 tcaatntctc aatctttggc ccttgcaaaa aaaccacata taataatagc aactcctggt 120
 cgactgattg accacttggg aaatacgaaa gggttcaact tgagagctct caaatacttg 180
 gtcattgatg aagccgaccg aatantgaat anggattttg agacagaggt tgacaagatc 240
 ctcaaagtga ttccctcgag 259

<210> 1102
 <211> 173
 <212> DNA
 <213> Homo sapiens

<400> 1102
 gaattcgcg cgcgctcgac gttaaggagt aggcctcctg agtaaaggag gtgtgatttt 60
 ttttttcttt gaggtgggag tatagttgga actaaataaa ctacgtgtga atttaccata 120
 tcaactaaaa ttttgatcaa atgggttttt taaattgtgt ggtacttctc gag 173

<210> 1103
 <211> 277
 <212> DNA
 <213> Homo sapiens

<400> 1103
 gaattcgcg cgcgctcgac ggggtgggta tgcgccacc ctatttcagg cagcgctcaa 60
 agtaggtgga gccgatgtag ccaccccgca tggagcgctg caggttctgc tcaaacagcc 120
 gccggttgtt ctgcaggacc tctgcggcct ccttgttcag tgggtcctcg gggttgggct 180
 ccaagaagag atactgcagg ccataaatta tggagtttat cgtaaggact ggctccagt 240
 cctctctgag gatgttgagg cagacgttgc cctcgag 277

<210> 1104
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 1104
 gaattcgcg cgcgctcgac agaatacttc gccataaata ctgttaagtg ggtaattga 60

```
tacaagtttc tgtggtggaa aatttatgca ggttttcacg aatccttttc tttttttttt 120
tttttttgag acggagtctc gctctgttgc cagctggaa tgcagtaacg tgatcttggc 180
tcaactgcgac ctccacctct ccctcgag 208
```

<210> 1105
 <211> 180
 <212> DNA
 <213> Homo sapiens

```
<400> 1105
gaattcgcg cgcgctcgac gttcctctct ggcattggtg ctcaaattga tgctaactgg 60
aacttcctgg attttgccca ccattttaca gtatttgtct tctattttgg agccttttta 120
ttggaagcag cagccacatc cctgcatgat ttgcattgca atacaacat aacgctcgag 180
```

<210> 1106
 <211> 309
 <212> DNA
 <213> Homo sapiens

```
<400> 1106
gaattcgcg cgcgctcgac gtcgaacgagg cgcgaattc gcggcgcgtc gacccaggaa 60
aggcctgtgg ggctctctc cccgcgctcc acacgccctc gcattcccacc gaggcgccag 120
cttctgcctg cagcttgctg aaactggcct ggaggttctg acaagaatta gagcggcgcc 180
cgttgccccc gggatgacct ggaagcgaaa gagaccggca cgaattctag agtttcgggg 240
tttcgcgggg ttgagattgt acgggaaaca atgcattaac caaacctaaa aatcaaacaa 300
acactcgag 309
```

<210> 1107
 <211> 185
 <212> DNA
 <213> Homo sapiens

```
<400> 1107
gaattcgcg cgcgctcgac cagcattagc agaccgaaac aggaggggaag gaagtggtaa 60
cccaactcca ttaataaacc ccttggtctg aagagctcct tatgttgga tggttaacaa 120
accagcaaat gaacaatccc aggacttctc aatacacaat gaagattttc caggcattac 180
tcgag 185
```

<210> 1108
 <211> 269
 <212> DNA
 <213> Homo sapiens

```
<400> 1108
gaattcgcg cgcgctcgac atgtattgga tgaacgaata tacctcatcc attggaattg 60
gagtttttca ttcagggaatt gaagtctatg gcagagaatt tgcttatggt ggccatcctt 120
accccttttc tggaatatat gaaatttccc caggaaatgc ttctgaacta ggagaaacat 180
ttaaatttaa agaagctgtt gttttaggga gcacggactt cctagaagat gatatagaaa 240
aaattgtaga agaactggga tcaactcgag 269
```

<210> 1109
 <211> 164
 <212> DNA
 <213> Homo sapiens

```
<400> 1109
gaattcgcg cgcgctcgac acctgattac tttttcacct ctacaaccag gagaattttg 60
aatttaaaaa taaatccaaa cattttcctt catattatca atgcttatat attccttaga 120
ctattgaaat tttggagaaa atgtatttgt gttcacttct cgag 164
```

<210> 1110
<211> 255
<212> DNA
<213> Homo sapiens

<400> 1110
gaattcgcg cgcgctcgac gattttaaaa tatttctttc ttaaatttct ctttcattgt 60
atgaattgtt ttctctgattt tattgaatta tcttctctgta ttatcttgta tcttattgag 120
ggttttttgt ttgtttgttt gtttgtgaga cagagtgtca ctctgtcacc taggctggag 180
tcgagtggtg tgatcttggc tcacaacaat ctttgccttc caagttcaag tgattctcct 240
gccccaaacc tcgag 255

<210> 1111
<211> 284
<212> DNA
<213> Homo sapiens

<400> 1111
gaattcgcg cgcgctcgac agctctttgg cctcagaatt ttcagtagcc agtatttctg 60
attaactaag ttgaaactct tattagaaac ttctagttgg tgatattgta ttctagaaga 120
tataaatgag aggttttggt tcatctcagt ttagaaattt attcaaagct aaagatgtat 180
atatacatat acttttgggt gtatatatac acatatgtgt gtatgcagtt tgcagggtta 240
tatatagaat ttctattaag gattttttta atggacagct cgag 284

<210> 1112
<211> 303
<212> DNA
<213> Homo sapiens

<400> 1112
gaattcgcg cgcgctcgac tgcaattcta atgcattcta cgtttttgaa aatcgataat 60
ccatggaagg tccatgggtt gatacctcag gtcaaaaatg tgtttactct gttgattgct 120
gtttcacttt acttgtatat cagatatata agctatgaac acaagtttgt agtaaaagta 180
tcttctgtct gggcaatggc tcacacctgt aattccaaca ctttgggggg ctcagggtgg 240
aggatttcta gtccccagga gtttgagacc agcctgggca ataaactaga cccactctc 300
gag 303

<210> 1113
<211> 105
<212> DNA
<213> Homo sapiens

<400> 1113
gaattcgcg cgcgctcgac ggggcttgta atttacctga gaaccgtgct ggtcactagc 60
gctgtctgtg tctgtctgtc ctgcgggact tctgtctcc tcgag 105

<210> 1114
<211> 216
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (73)

<220>
<221> unsure
<222> (86)

<220>

<221> unsure

<222> (104)..(105)

<400> 1114

```

gaattcgcgg ccgcgtcgac gagaggagac acaggaagcc cagagagcca gatcgagaca 60
agaaacaccg agnaaaaagc agcacnaggg aaaaaagaga gacnnattcc aaagagaaaa 120
gtaattcatt ctctgacaaa ggggaagaaa gacataaaga aaagcgacac aaagaagggtt 180
ttcattttga tgatgagagg caccgctata ctctgag                               216

```

<210> 1115

<211> 286

<212> DNA

<213> Homo sapiens

<400> 1115

```

gaattcgcgg ccgcgtcgac gctttctggt gattgggacc ctgatgcca gtgccactt 60
tgcaaagaag aaaaagttaa tgacctgct cccttggctc ctgtccatgc ttgcctggcc 120
tcctagagtt ggaggaacaa gccctctcct ggcagaggca ggagagcaag tgctctccta 180
tgatccaata catcaggcgg gagtgctgag tccgtcagga caccactcct cgcagcatca 240
aggtccagtg ggggtgggtc agggcagtgga gaaggggtgg ctctgag                               286

```

<210> 1116

<211> 170

<212> DNA

<213> Homo sapiens

<400> 1116

```

gaattcgcgg ccgcgtcgac gaagaaaata ccaagtgttc attctgtcat tagcaaggaa 60
caccaatgag gtttcttttt tttctctatt tagggcatat taaaattatc cttcagagta 120
cttgatttga aaatcaagtt tatgctcttg aaaagaatcg tgggctcgag                               170

```

<210> 1117

<211> 191

<212> DNA

<213> Homo sapiens

<400> 1117

```

gaattcgcgg ccgcgtcgac atttctcttg gaattgggct gctaacaact tttatgtatg 60
caaacaaaag cattgtaaat cagggttttc taagagaaaag gtccctcaaag attcagtggt 120
cttggttact ggtattctta gcaggatctt ctgttctttt atattacacc tttcattctc 180
agtcactcga g                               191

```

<210> 1118

<211> 175

<212> DNA

<213> Homo sapiens

<400> 1118

```

gaattcgcgg ccgcgtcgac gttcttttcta tggaaccacg ttggaaaaga tcatttgtta 60
accaggggct ctgttcttat agatgcatat cagaatgatc cacagtcaga actttgtggg 120
cctcttggtta atgctggaaa tttttcaaca ggcctggaag acagccggac tcgag                               175

```

<210> 1119

<211> 205

<212> DNA

<213> Homo sapiens

<400> 1119

```

gaattcgcgg ccgcgtcgac attctatagg attttctata tacgagatta tgccgtctgt 60
gaaaagagat cgttttatct cttcccttct gatctggatg acctttatct cttttctctg 120

```

cctaattgcc ctgattagaa ttccactac aatgttgagt atttgtggta agagcagata 180
 ttcttgtctt gtccctgac tcgag 205

<210> 1120
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 1120
 gaattcgcg cgcgctcgac cacagacata gttctaaatg actttcagct atttctagaa 60
 attagacaca tcttcttaag cgaagggtta ccatgtttaa gggtccatga aagaatgtgc 120
 cctaagttgt tgcctagccc ctggctgaga agaaacgggc gtgtgggagg cgggtgaaga 180
 gcacacaggg aggggacgga gaagctctg agccagcctc ctccatggct cagtttcatt 240
 tcagtgcgtg gcacttccca gaagaaacga ctcgag 276

<210> 1121
 <211> 339
 <212> DNA
 <213> Homo sapiens

<400> 1121
 gaattcgcg cgcgctcgac ggggggtccc cctgctgagg agagaccagg tggaccccag 60
 ctgctgtgca ccttctcatc gggacttget gtcaaaccct aggatagtct cataaagggg 120
 aggtcgggcc agcctgctgc tgtctgcttc aggaccaggc agagagttag gctgggggtt 180
 ctccacacctt actccacggy gcacatccca acctgcactg gggccccacc gagcgtttgt 240
 tctggtctca gccgctccct tggcagctgc agccccatg cagaagaggc tcccaggccc 300
 aagctctgtg tgaccacagag aaataatgat gcactcgag 339

<210> 1122
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 1122
 gaattcgcg cgcgctcgac ccatacccg cctgtttaat tctttataat tcacttctgt 60
 tgtgaaaaca gcattttata cttaagctta atgattgcaa cagtcaaaat tattttattt 120
 ttaaacttca cttatcattt aggaattatt ttcccgcaag gactcgag 168

<210> 1123
 <211> 202
 <212> DNA
 <213> Homo sapiens

<400> 1123
 gaattcgcg cgcgctcgac attcatctag catggaagg agtgaaacag gttctcgga 60
 ggggttcggat gttgctgca ctgaaggcat ttgtaatcat gatgaacag gtgatgactc 120
 ttgtgttcat cactgtgaag acaaagagga tgatggtgat agttgtgtt aatgttgggc 180
 aaattctgaa gcagaactcg ag 202

<210> 1124
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 1124
 gaattcgcg cgcgctcgac cattattgta aataaaacct aatattttta actatatata 60
 tctttttta tagattacac caccaccttc actgtcagat ccacttaaag agctttttcg 120
 acaacaggaa gttgtaagga tgaaactacg ttgcaaacac agcatactcg ag 172

<210> 1125
 <211> 164

<212> DNA

<213> Homo sapiens

<400> 1125

```
gaattcgcg cgcgctcgac cgattgaatt ctagacctgc ctaggcacag atgctaatagc 60
aggcactgca ggtaagctgg gcttggtatc cttccctggc ttcagaaaga agccaacaag 120
gagcggtttg cagaatgaaa cctttgtttc cacaagcact cgag 164
```

<210> 1126

<211> 563

<212> DNA

<213> Homo sapiens

<400> 1126

```
gaattcgcg cgcgctcgac atttgggtcat tgggaattac tgctattgaa ctagccaagg 60
gagagccacc taactccgat atgcatccaa tgagagttct gtttcttatt cccaaaaaca 120
atcctccaac tcttgttga gactttacta agtcttttaa ggagtttatt gatgcttgcc 180
tgaacaaaaga tccatcattt cgtcctacag caaaagaact tctgaaacac aaattcattg 240
taaaaaatc aaagaagact tcttatctga ctgaactgat agatcgtttt aagagatgga 300
aggcagaagg acacagtgat gatgaatctg attccgaggg ctctgattcg gaatctacca 360
gcagggaaaa caatactcat cctgaatgga gctttaccac cgtacgaaa aagcctgac 420
caaagaaagt acagaatggg gcagagcaag atcttgtgca aacctgagt tgtttgtcta 480
tgataatcac acctgcattt gctgaactta aacagcagga cgagaataac gctagcagga 540
atcaggcgat tgaagaactc gag 563
```

<210> 1127

<211> 217

<212> DNA

<213> Homo sapiens

<400> 1127

```
gaattcgcg cgcgctcgac ctcttagctg agcaggcgag agcatcatgg ataccgactt 60
atatgatgag tttgggaatt atattggacc agagcttgat tctgatgaag atgatgatga 120
attgggtaga gagaccaaag atcttgatga gatggatgat gatgacgacg acgatgacgt 180
aggagatcat gacgatgacc accctgggaa actcgag 217
```

<210> 1128

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1128

```
gaattcgcg cgcgctcgac gaaaaccgct acattgtcct ggccaaggac ttcagaaaag 60
catacaagac tgtcatcaag aaggacgagc aggagcatga gttttacaag tgacccttcc 120
cttccctcca ccacaccact caggggctgg ggcttctctc gcaccccccag cactctctgc 180
ccaaaacctc attccctttt ttctttacc agagctctcg ag 222
```

<210> 1129

<211> 185

<212> DNA

<213> Homo sapiens

<400> 1129

```
gaattcgcg cgcgctcgac ggctgcagac agacaaacac ctgagctgtt ctgaatacct 60
tcaggttcct ggcctccctg agcaagtgc aaaaatttta ccttcaagga tcagggtttt 120
tctgtttgtt tgttttttaa cacacatata tctgaacaaa gagtatgcgt ttgtactggc 180
tcgag 185
```

<210> 1130

<211> 167

<212> DNA
<213> Homo sapiens

<400> 1130
gaattcgcg cgcgctcgac cgtgtgagtg tgtgtttgta tacgtctggc aattaaagct 60
ttgtcttctg gaacttagtg aattcttttc tctttttcct ccagaagtat ttgttacaag 120
atgtgtaaat aagagctcta cttagtttgt ttaccatgaa cctcgag 167

<210> 1131
<211> 218
<212> DNA
<213> Homo sapiens

<400> 1131
gaattcgcg cgcgctcgac cttttgcttt tcttctctta caattctact ctccttttcc 60
tgtctctttt ccaatctatc ctcatttctt cctcctgcct cctctcttat cctatactta 120
tggtctgctc acttctgtct attctctttt cctctctctt tcccacctgc ctgttcatcc 180
tatttctctc tctgcccgt ctatccccac cgtcgag 218

<210> 1132
<211> 354
<212> DNA
<213> Homo sapiens

<400> 1132
gaattcgcg cgcgctcgac cttcttgatg ttttgttttc tattttatct ttcgtttttg 60
tgtgtctgca tgggtgtttt cgggcagtg cttctgcat catcaccaca tgtttctctg 120
ctgcccactg tcttgaggtg ggccgctcgt gaagccctgc ttcctgacct ttgcgggacg 180
agtccccccc tcttttttcc tgtccccatc ggtagtctgc gtgcacgtgt tttccacagt 240
aaaaccgtgt tgtgtaactc tttccagcaa agtaacaatc cgcattaca aaggctcgtc 300
tccttgatcc agttaacgag tcagaactct tctcccaatc agcagaacct cgag 354

<210> 1133
<211> 464
<212> DNA
<213> Homo sapiens

<400> 1133
gaattcgcg cgcgctcgac agacttgcta ctggaataga agaactacgt actaagctga 60
tacaaataga agctgaaaat tctgatttga aggttaacat ggctcacaga actagtcagt 120
ttcagctgat tcaagaggag ctgctagaga aagcttcaaa ctccagcaaa ctggaaaagt 180
aaatgacaaa gaaatgttct caacttttaa ctcttgagaa acagctggaa gaaaagatag 240
ttgcttattc ctctattgct gcaaaaaatg cagaactaga acaggagctt atggaaaaga 300
atgaaaagat aaggagtcta gaaaccaata ttaatacaga gcatgagaaa atttgtttag 360
cctttgaaaa agcaaagaaa attcacttgg aacagcataa agaaatggaa aagcagattg 420
aaagacttga agctcaacta gagaaaaag accaacagct cgag 464

<210> 1134
<211> 159
<212> DNA
<213> Homo sapiens

<400> 1134
gaattcgcg cgcgctcgac gttgggttat ttgtctcatt ataagtttta ggaattgttt 60
atatattcta gatattgtt ccgtattgga tatatgattt gcaaatgttt ttctgcattc 120
tttgggttat cttttcactt tcttggtagt gaactcgag 159

<210> 1135
<211> 419
<212> DNA

<213> Homo sapiens

<400> 1135

```
gaattcgcgg ccgcgtcgac aaggaatctg agaaaaaggg gttgattgaa agaattctata 60
tggtacagga tattgtttca actgttcaaa acgtcttggg ggaaatagct tcttttggag 120
aaaggattaa gaacacattt aactggacgg tccccctcct ttcattctctg gcctgtttga 180
ttctggcagc agccaccatc attttgtatt tcattccact gcggtacatc attttaatct 240
ggggcataaa taaattttact aagaagcttc gaaatcccta ttccatcgac aataatgagc 300
tactagacct cctctctagg gtaccgtctg atgttcaaaa ggtgcagtat gcagaattga 360
aactctcgag cagccacagc cccctgcgga agaagcgag cgctccaggg cacctcgag 419
```

<210> 1136

<211> 238

<212> DNA

<213> Homo sapiens

<400> 1136

```
gaattcgcgg ccgcgtcgac gcatatcagg agagaagtgg ggagtctttc aggtataccc 60
cgtttccatg tttttggtag taaaagggat gctttgcaaa gcccttgatc agtttcccag 120
cattttgggt tggatgactt tgacaagtgt tgggaagtgg aggggtgttg tggctgatgg 180
tgtctgtttc ccccgagccc gcctgaactg taagcactgt gggaagcagg ctctcgag 238
```

<210> 1137

<211> 220

<212> DNA

<213> Homo sapiens

<400> 1137

```
gaattcgcgg ccgcgtcgac tgggcttcaa ctgtatgttt ttctgctgcc agaagtcca 60
tatattctgt ttcttccttt attgcagcct ctctcagggc ctccaggcgc tgccggctgc 120
tctccttcat gtacacgaca tctttgtaat cccctgcag ggctctctgc agtccgtaga 180
cagcttgga aacggaattt tcacttccat tcagctcgag 220
```

<210> 1138

<211> 326

<212> DNA

<213> Homo sapiens

<400> 1138

```
gaattcgcgg ccgcgtcgac caaggaaatg tgagccccag gctgcagaag gaagagtcag 60
tgaatggctg cgggtgtgaca acatgcacca ccagtggctt ctgctggccg catgcttttg 120
ggtagatttc atgttcattg tggctagcaa gtatcatcac ttgaccttta aagaccaga 180
tgtgtacagt gccaaacagg agtttctgtt cctgacaacc atgccggaag tgaggaagtt 240
gccagaagag aagcacattc ctgaggaaact gaagccaact gggaaggagc ttccagacag 300
ccagctcggt cagccgagtt ctcgag 326
```

<210> 1139

<211> 256

<212> DNA

<213> Homo sapiens

<400> 1139

```
gaattcgcgg ccgcgtcgac ctggaaaatc ccaaaatatt tggaaacct atagcacact 60
tacttctaaa attgtggtag aatacatata acatagaaat tattgttcta accattttta 120
aatgtacaat tcagtggctt taagcacatt cacattgttc tgtttatcta cagaacgctt 180
ttcatcttgc aaaactgaaa ctctgtattc attaaacat aactcccat tttctccttc 240
ccccatatcc ctcgag 256
```

<210> 1140

<211> 320

<212> DNA

<213> Homo sapiens

<400> 1140

```

gaattcgcg cgcgctcgac gactgatgtt ggagtctatg ctcatctgga tgtacttcca 60
gtcaaaactca atgccccggg ctccgaccca taggggaatg cagcgggaca taataagctc 120
agcagtggcc cagcccaggg cagcaaccat gatcttgtag tctcccttgc cggcattccg 180
ggacatgaca aggttttagac ctatcaggtc tgccacatcc acgctggcct tcatgaactc 240
cccaatgaag tcatagatgc cgccttccca ggtgggaaag aaagtggcca agaacagcat 300
cttcagagg cggactcgag

```

<210> 1141

<211> 273

<212> DNA

<213> Homo sapiens

<400> 1141

```

gaattcgcg cgcgctcgac ggctttctct gaaatgccaa agccaccga ttattcagag 60
ctgagtgact cttaacgct tgccgtggga acaggaagat ttccgggacc attgcacaga 120
gcatggagaa tgatgaactt ccgtcagcgg atgggatgga ttggagtggg attgtatttg 180
ttagccagtg cagcagcatt ttactatgtt tttgaaatca gtgagactta caacaggctg 240
gccttggaaac acattcaaca gcacccctc gag

```

<210> 1142

<211> 186

<212> DNA

<213> Homo sapiens

<400> 1142

```

gaattcgcg cgcgctcgac tcgaggagtg ccctaatacga cgaggacccc caggcggcgt 60
tagaggagct gactaaggct ttggaacaga aaccagatga tgcacagtat tattgtcaaa 120
gagcttattg tcacattcct cttgggaatt actgtgttgc tgttgctgat gcaaagagac 180
ctcgag

```

<210> 1143

<211> 289

<212> DNA

<213> Homo sapiens

<400> 1143

```

gaattcgcg cgcgctcgac tgcctcagca cctttgcact ggttgctccc ttagtctgag 60
atccactttt acccattgtt cactttctca ttccattttg gtttctctca aacattgtct 120
cattatagaa accttgccctg acaactctaa catgtcagcc tctctgcgct tcttaggacc 180
tttctctcct cttacctgct ttttcttctt cccactatg atttggtatc aaaatatttg 240
tgcattttgc aattcagtggt ttacagcctg tcaagccacc caactcgag

```

<210> 1144

<211> 534

<212> DNA

<213> Homo sapiens

<400> 1144

```

gaattcgcg cgcgctcgac gctgccttta ttctctgagc cttgactctg tcccaggcct 60
gccctggagc gcctgcacgc tcagctccct gaggtaggtc cggagggaga cccccgcgtg 120
ccccccgcc tcggccagga tacctctcac ctcatgtccc ctctccaga ccccacagc 180
cctggatgcc ccatagcagc cctgccacgg ctggcagaac tgctccacc ctccaccaac 240
ccccaaagaca ggcaggtcga cgcggccgcg aattcgcggc cgcgtcgacg tggagaagga 300
cgtgccgtgc cgtgggttc tgagccggag tggtcgggtg gtgggatgga ggcgacctg 360
gagcagcact tggaaagacac aatgaagaat cctccattg ttggagtccct gtgcacagat 420
tcacaaggac ttaatctggg ttgcgcggg accctgtcag atgagcatgc tggagtata 480

```

tctgttcttag cccagcaagc agctaagcta acctctgacc ccaactgaact cgag 534

<210> 1145
<211> 149
<212> DNA
<213> Homo sapiens

<400> 1145
gaattcgcgg ccgcgtcgac ctaaaccgtc gattgaattc tagacctgcc tcgagaacca 60
ccccccacct ttggcctct tcattttatc cttaatgtt attcctcaga cctccatttt 120
tttttctctt cttaatcaca ccaactcgag 149

<210> 1146
<211> 138
<212> DNA
<213> Homo sapiens

<400> 1146
gaattcgcgg ccgcgtcgac tctagacctg cctcgcggaa cttcagtttg taaacagggt 60
ctggtttcac aaggctctaag aactccagggt gaaattcata gacattgtct cctttggcac 120
catgtccttg ggctcgag 138

<210> 1147
<211> 246
<212> DNA
<213> Homo sapiens

<400> 1147
gaattcgcgg ccgcgtcgac gttttgtctg ctttaaaatt ctgtattata ctgcatgtac 60
tcttttatgg cgtgcttttt tccttgttat tgtatcatga acactagttt gtttttctct 120
tttttctttc cgttctgttc ctggacattt ttattttcag gatttggttg tatcatatca 180
gaaagaaacc tgtactcaat ggcagttact cctcattttt catcctcttt cccccgaac 240
ctcgag 246

<210> 1148
<211> 190
<212> DNA
<213> Homo sapiens

<400> 1148
gaattcgcgg ccgcgtcgac gttcactgag caettacata gattaacagt tacaagtttc 60
cataaatcag ttagaatatg actagcttca gggaaggaaat tttcaacaac tgcaatcttt 120
gattgtttta ctgtgggaac ttgcagtgat ataattgaca acattattta acaataatag 180
gtatctcgag 190

<210> 1149
<211> 361
<212> DNA
<213> Homo sapiens

<400> 1149
gaattcgcgg ccgcgtcgac tgattatagc aaattcatac aaaccagacc taaaagaaaa 60
ctcagaaaagc aacatggcaa tggaaaaaga aattggaaga ccagaggcac aggaggaaga 120
ggcagatggg gaagatgacg tagatggagt agaggaggca gaggaagagg aggcagggga 180
cgagggagtc gaggaagagg tggaggtggc actaggggga ggggaagagg gagaggagga 240
agaggtgctt cttagaggagc taccagagcc aaacgagcac gtattgcaga tgatgaattt 300
gataccatgt tttcaggacg tttcagtaga ctgcctcgaa ttaaaacaag aaaacctcga 360
g 361

<210> 1150
<211> 297

<212> DNA

<213> Homo sapiens

<400> 1150

```

gaattcgcg cgcgctcgac ccactgcgca cagcccatTT atattaaagt gaagttgatt 60
atagtttcat atgtcttaag gaccattaaa aaaatttttt tggTgaatta ttattcata 120
ttttgcttat ttctcaacag gatatttgtt tttttccttc aattttttaa agttcttcaa 180
gtattagggg taatgtcatt atctgtgaag tgttttgcatt atatttgctc agcttgtttt 240
ttgactttgc ttgttttttg tttttattct tttttgccac acaagccaga tctcgag 297

```

<210> 1151

<211> 346

<212> DNA

<213> Homo sapiens

<400> 1151

```

gaattcgcg cgcgctcgac caagtatgtt ctcagaagct atacactcat tatctgatac 60
ttgtaatcag ggtttactag cattgggcat cagtaagtct gttcaaacac cagatccttc 120
tcatccgtac ggattttcaa atatgcgcta tatttcttcg ctaattagtg gtgttggtat 180
tttcatgatg ggtgcaggac tatcttggtt ccatggagtc atgggattgc ttcaccccca 240
accaatagaa tcccttctat gggcatattg tatttttagc ggatcattag tatctgaagg 300
agcaacactt cttgttgctg taaatgaact tccaggaaag ctcgag 346

```

<210> 1152

<211> 256

<212> DNA

<213> Homo sapiens

<400> 1152

```

gaattcgcg cgcgctcgac ctgaatgcc catgcgcacc ccacagctcg cgctcctgca 60
agtgttcttt ctggtgttcc ccgatggcgt cgggcctcag cctcttccct ccccatcagg 120
ggcagtgccc acgtcttttg agctgcagcg agggacggat ggcgggaacc tccagtcctc 180
ttcagaggcg actgcaactc gcccgccgtt gcctggactc cctacagtgg tccctactct 240
cgtgaactcc ctcgag 256

```

<210> 1153

<211> 181

<212> DNA

<213> Homo sapiens

<400> 1153

```

gaattcgcg cgcgctcgac tagaagtga cagagaatta cacaagtgtg actatacaaa 60
ttgtaaaaca gatactataa tatttctttt tatttttagt ttatttagct ttattacaga 120
tttctatttt tgtcaaaaact tcatgggttc tttcaagatc ttttttgcca aaacactcga 180
g 181

```

<210> 1154

<211> 304

<212> DNA

<213> Homo sapiens

<400> 1154

```

gaattcgcg cgcgctcgac agaatatatt attcccacag gaaaaactca gaaaagggtg 60
gtaaaatcct cagaaggggg agcagttgat tcagtaagac tgcgacaatt taatactgtt 120
acgttgctt tgatacctga ctaaaatgtga ctgagtgcga caagcattta agaaaaatTT 180
tagacagtgt tttgtttaga attcagggat catgcattct ttaattggtg tgtttgtttt 240
ttatttcttt tctacaaaga aaacaagtgt tgccacaaa agtgactgct cacaatacct 300
cgag 304

```

<210> 1155

<211> 194

<212> DNA

<213> Homo sapiens

<400> 1155

```

gaattcgcgg ccgcgtcgac attggatttt ggtccatagt tggaggctgt gttgttgaa 60
tagctatggc aaggtttgca gattttatca ggggtatgct gaaactaatt cttctcctcc 120
tgttttcggg agctacactg tcattccacgt gggtccacct gacctgtttg aacagcatca 180
cacacccct cgag 194

```

<210> 1156

<211> 537

<212> DNA

<213> Homo sapiens

<400> 1156

```

gaattcgcgg ccgcgtcgac gcttagaggt catctttcaa ggaggcatta aatatcaatt 60
ataaattatt aagtcagata aatatgcctg accttttcac agttgaaaaa atacattttt 120
tccccctctat caaatgccaa gtttttagtg gaaatgctaa tggcagtggg aaaggttgcc 180
tcactttcag agagactctc gctgtctgca cccttttaat aattgctctt cctggcaagg 240
ctgccacttc cctgcctccc cagctggcag tggggcaacc caggcctgtt tccagctacc 300
tgcaaaagcca gacctagacc tgccgtagct gttgtcccat gcctaattct agttacagga 360
agccatccct gtaccctggg tccattcaca ggaatgggtt ccagaggagg ctgataagaag 420
ggtttgaaat gactggctgg atcccttctt gctcagacac agtggtagct ggagagcagg 480
cagagatggt agaattgcag gtttgaccac ctgtcgtgac ccagaagct actcgag 537

```

<210> 1157

<211> 580

<212> DNA

<213> Homo sapiens

<400> 1157

```

gaattcgcgg ccgcgtcgac cacttttaaa aaacaaaaaa agacaagaga gatgaaaacg 60
tttgattatt ttctcagtgt atttttgtaa aaaatatata aaggggggtgt taatcgggtgt 120
aaatcgctgt ttggatttcc tgattttata acagggcggc tgggttaatat ctccacacagt 180
ttaaaaaatc agccctaat ttctccatgt ttacacttca atctgcaggc ttcttaaagt 240
gacagtatcc cttaacctgc caccagtgtc caccctccgg cccctgtctt gtaaaaaggg 300
gaggagaatt agccaaacac tgtaagcttt taagaaaaac aaagttttaa acgaaatact 360
gctctgtcca gaggttttaa aactggtgca attacagcaa aaagggattc ttagctttta 420
acttgtaaac cacatctttt ttgcactttt tttataagca aaaacgtgcc gtttaaacca 480
ctggatctat ctaaatgccg atttgagttc gcgacactat gtactgcgtt tttcattctt 540
gtatttgact atttaactct ttctacttgt cgccctcgag 580

```

<210> 1158

<211> 397

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (27)

<400> 1158

```

gaattcgcgg ccgcgtcgac ctgccangtg gatgagaagt gattacctgt ggaaattcat 60
agtgttatct ttttatagca ttcatctaca aaggttggtt ttatgtaggc ctttcccttt 120
tgttctttat tgcagatatt caagagaagc ttatgtggag ttagttcacc atattagaga 180
atctattcca ggtgtgagcc tcagcagcga tttcattgct ggcttttggt gtgagacgga 240
ggaagatcac gtccagacag tctctttgct ccgggaagtt cagtacaaca tgggcttctt 300
ctttgcctac agcatgagac agaagacacg ggcatatcat aggttgaagg atgatgtccc 360
ggaagaggta aaattaaggc gttcggagga actcgag 397

```

<210> 1159
 <211> 198
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (30)

<400> 1159
 gaattcgagg ccgcgtcgac agattatatn acaatttata ttcaattcta gattctaagt 60
 ttcttttggg caagaatatt tattttccct gtgtcaattc agggactcca ggaaacagaa 120
 gctaagaaca gaagcaagtg ctggagattt actgagaggt tacacttggt gaagatgaag 180
 tgtagcggca tcctcgag 198

<210> 1160
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 1160
 gaattcgagg ccgcgtcgac attaaagggt aagttctgca aatgggagag tgttcacagt 60
 agatagctca gattgattga acacatttga ggaagagact cctgcatgag ataccagcat 120
 ttttacaagt actttttatg tacattcttt attttgcct tttgtcaacc ctctcccaaa 180
 ctcgag 186

<210> 1161
 <211> 298
 <212> DNA
 <213> Homo sapiens

<400> 1161
 gaattcgagg ccgcgtcgac gcttggcaag gagactaggt ctagggggac cacagtgggg 60
 caggctgcat ggaaaaatc cgagggttc cccaggcaga acagccacgc tccaggccag 120
 gctgtcccta ctgcctggtg gagggggaac ttgacctctg ggagggcgc gctcttgc 180
 agctgagcga gcccggtgct gctggtctgt gtggaaggag gaaggcagg agaggtagaa 240
 ggggtggagg agtcaggagg aataggccgc agcagccctg gaaatgatgc aactcgag 298

<210> 1162
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 1162
 gaattcgagg ccgcgtcgac gccagttata gactgtccag catccaagac gtttcgggta 60
 tgcgggttc tcagatcgcc tctgacttgt taccacaaca aatcattttg atttcagtgc 120
 ctgttgggga cttgatttct tctcagtttt gtttgtttgt ttgtttcctt aatctggctc 180
 atttgaaatt tcttctccct ctcaaccatc ccactaatct cgag 224

<210> 1163
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 1163
 gaattcgagg ccgcgtcgac cccatggcca cctgttcta tgagctcacc agctccacc 60
 tggagatatt aacagtgaac actgtcaagc agacacctaa ccacatcccc tcaacgatca 120
 tggcaaccac ccagcctcca gtagaaacca ctgttcctga gatccaggat agcttcccat 180
 acctgctgtc tgaagacttc ttgggacagg aaggcccccgg gccagggtgca agtgaggagc 240
 ttcacccac cttggagtcg tgtgtggggg acggatgtcc tggcctcagc agaggccctg 300

tgatcgccct cgag

314

<210> 1164

<211> 219

<212> DNA

<213> Homo sapiens

<400> 1164

gaattcgcgg ccgcgtcgac gtaataaatt attcactgtt tcttttggta actgtgattt 60
aaaaaaagaa aaaagaaaaa aaagctttat acgttttagg ttgtgctttt gtaatagatg 120
aaaaaagggtg cgcttaaaaa gaaaatgtat gtttttttcc ccttttggat tttatttatg 180
ctggattggg gaaagttgca gaatgagcgc caactcgag 219

<210> 1165

<211> 174

<212> DNA

<213> Homo sapiens

<400> 1165

gaattcgcgg ccgcgtcgac atccctcagt gaacatttgg gttgcttcca ccttttaact 60
tgtgtagctt tttttggggg gatattttgg ctctcaaaag gacaaaggaa aaaattaggt 120
tcagttgcta ggattactca catgagggtg ggcattgggca ggaccatact cgag 174

<210> 1166

<211> 221

<212> DNA

<213> Homo sapiens

<400> 1166

gaattcgcgg ccgcgtcgac gatacttatt gctgctcttg caccaatatg ctttccgaag 60
tgctgttggt tctctctcaa tatttgacac tttgtgggtg tatccaacta atgctggccc 120
agaatgcaaa taatagagca gcacaccttg aagagtttca ttaccaaaca aaagaagacc 180
aggagatcct gcatagcctt cacagagagt ccaccctcga g 221

<210> 1167

<211> 118

<212> DNA

<213> Homo sapiens

<400> 1167

gaattcgcgg ccgcgtcgac tgggttttca catgctatct caggcttgcc ttttttatct 60
gtattttctt gtagcagttt gtcgacctga gaaatggcct cttcccagca atctcgag 118

<210> 1168

<211> 248

<212> DNA

<213> Homo sapiens

<400> 1168

gaattcaaca agaggcagtt ctttactaat caacatataa cttgaatacc tgggcaaaga 60
caaattattc aggtggacaa agaaataaat gaataaaagt gggattcaaa tttttgattt 120
cataagttcg gaaataagta atcaagaaac ctaactaata aaccacacaa tcaactgattt 180
gcaaacttga acaccaaaga aaaagataat ttatggtaac tatattcatt ttttttgttc 240
tccctata 248

<210> 1169

<211> 195

<212> DNA

<213> Homo sapiens

<400> 1169
 gaattcgcgg ccgcgctcgac cagcctggaa ggtaatgcat gtccatggta cacaaattca 60
 caaggtttgt aaatgagaaa agacgtgagg ttctttttgt tctttacctg tggcctccct 120
 gccctacacg gggactctag ggtggaatgt agcaaagccc atccaccagc catgtactac 180
 cccccccgcg tcgag 195

<210> 1170
 <211> 222
 <212> DNA
 <213> Homo sapiens

<400> 1170
 gaattcgcgg ccgcgctcgac gtgggtggaca gctgtagtga taatgttgat agtaggtata 60
 ataacaccag tgtttttattt gttgtattat gaaatttttag ctaaggtgga tggtagtcat 120
 cattcaacag tggactcttc acatttcat tcaaaaatca ccccccatc acagcagaga 180
 gaaatggaaa atggaattgt gccaaactaaa ggaatactcg ag 222

<210> 1171
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 1171
 gaattcgcgg ccgcgctcgac tagaagaaac ccagaaattc agtcttttct gttttattgg 60
 cagtggctag catgttctctt gggccaacta aagttcgaag caggcccata agctggactg 120
 ctctccaag ttcaggatct gtatcacaaa tcatatgttc tataatgagg ttgatgagca 180
 aaatatcctt gctggttatt ttttgcctg ttaacttctt acttacatca tcattctgtt 240
 gtgcctctg catgacaaac tctcgtacca tggatggatt atattcaacc aagtatgaga 300
 atatatact cgag 314

<210> 1172
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 1172
 ggaattcgcg gccgcgtcga cgcatttatt aaccagagta cttgtttgca attttttatc 60
 tgtgaaaata ttttaagct cttacaaaac ttaaattttt aaaaaatcag ctcaaaaatt 120
 ttttccatgt tgttgggcat accactgctg tctctgctt cggtttccca actcgag 177

<210> 1173
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 1173
 gaattcgcgg ccgcgctcgac gtttgagaaa cctgtgtgaa aatccatact ttagcaatct 60
 aaggcaaaac atgaaagacc ttatcctact tttggccaca gtagcttcca gtgtgccgaa 120
 ctttaaacac ttcggatttt accgtagcaa tccagaacag attaatgaaa tcacaaatca 180
 aagtttgcca caggaaattg caaggcactg catggttcag gccagctcg ag 232

<210> 1174
 <211> 252
 <212> DNA
 <213> Homo sapiens

<400> 1174
 gaattcgcgg ccgcgctcgac ccagactata tagttcaaag agaattccta tttttcgta 60
 ggtatgcaac aaaacaatgc agtttgtatt atatcgtatt ttgtattgta ttatcgatg 120
 ggtctcactc tgttaccacg tctagagtgc agtggcacga tcacagctca ctgcagcctt 180

gacctgccag tctcaagcaa tctctctacc tcagctctcc aagtagctga gaccacaggc 240
actcaactcg ag 252

<210> 1175
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (13)..(14)

<400> 1175
gaattcgcg ccnngtcgac gcatatactg ccatgtcaga ttcctactta cccagttact 60
acagtccttc cattggcttc tcttattctt tgggtgaagc tgcttggctt acgggggggtg 120
acacagccat gccctactta acttcttatg gacagctgag caacggagag cccacttcc 180
taccagatgc aatgttttgg caaccaggag ccctaggtag cactccattt cttggtcagc 240
atgggttttaa tttctttccc agtgggattg acttctcagc atggggaaat aacagttctc 300
agggacagtc tactcagagc tctggatata gtagcaatta tgcttatgca cctagctcct 360
taggtggagc catgattgat ggacagtcag cttttgccaa tgagaccctc aataaggctc 420
ctggcatgaa tactatagac caagggatgg cagcaacact cgag 464

<210> 1176
<211> 170
<212> DNA
<213> Homo sapiens

<400> 1176
gaattcgcg ccgctgcgac ctttgggtat catatcctga atatatgaag ttcattaagc 60
actttctcct catctccctt agaaggctct ctttctccca ggggtgggggt ggggaagagc 120
tgacaggaca ccctaagtc atcctgattt tgcagaacc aaggctcgag 170

<210> 1177
<211> 207
<212> DNA
<213> Homo sapiens

<400> 1177
gaattcgcg ccgctgcgac gtgattgtgt tttttaaag ataagtaatt tgatgaactg 60
ttcttttgc gtcagaaaa actcacaaaa agacaaaaaa agttccacag tattatattt 120
catgtcagtt caggcctaaa atccttttgc aataagatgt ttataggctg gtcacaatta 180
acaatgttat tattggcaac actcgag 207

<210> 1178
<211> 163
<212> DNA
<213> Homo sapiens

<400> 1178
gaattcgcg ccgctgcgac attgaattct agacttgctt ctctctctc ctctaccctc 60
acttctaagt actaggtaca tttctacctt gctttcaatt ctaccttgct ggtgttttcc 120
attagtcat ttttcccat tgtctcttac cacacaactc gag 163

<210> 1179
<211> 313
<212> DNA
<213> Homo sapiens

<400> 1179
gaattcgcg ccgctgcgac caaagatgtg tacaaaaatt tatcttttca gccctcaa 60

```

attgattttg aacattatct tgcaaagagt actaagtggg tgggttagttg agatagagga 120
atatgcagct tttagactatc ttccctttcc cgtcagttacc agctttcatg atacaatttc 180
ctcttatcac tttagtcaag aggtggggca gaaaattttg agttacagta tcattcgaag 240
agaatttatt tctgccttcc atgttatagc cccaaagggg tccaggaccc gaaaggccag 300
cttctccctc gag 313

```

<210> 1180
 <211> 227
 <212> DNA
 <213> Homo sapiens

```

<400> 1180
gaattcgcgg ccgcgtcgac ggcataagata agtttatgga agacctaaaa gatatgctgg 60
gctttgctcc cagcagatat tactactata tgtggaaata tttttctcct ctaatgctat 120
tatcattgct aatagctagt gttgtgaata tgggattaag tcttcctggc tataacgcat 180
ggattgaaga taaggcatct gaagaatttc tgagctatcc actcgag 227

```

<210> 1181
 <211> 253
 <212> DNA
 <213> Homo sapiens

```

<400> 1181
gaattcgcgg ccgcgtcgac atttgccaca aacgctgtta actggactca cacatactat 60
gtgtacctta atgatttatt tactctatgg acagttatta gaacatctgg tatgtgggta 120
cccgtgcgga gccaaaggaga ttagggcgctg ggggctgcag tgtcagcctt cccgggagtg 180
cacggtccag ccagggaccg ggggtccctg ggagctgtgc ttcagaagct tactgactga 240
tgaaagcctc gag 253

```

<210> 1182
 <211> 153
 <212> DNA
 <213> Homo sapiens

```

<400> 1182
gaattcgcgg ccgcgtcgac cttctatata actgaaatag ttccctgaac atttgataaa 60
gttttccctta gaaagaaact ggatttggtg cttcattagt aatagttaac tgatcacatg 120
ctaatttttc cctgttctct gtatttactc gag 153

```

<210> 1183
 <211> 158
 <212> DNA
 <213> Homo sapiens

```

<400> 1183
gaattcgcgg ccgcgtcgac caggcatcca caaaagaaga ccaagctttg tccaaagagg 60
aagagatgga gactgagtca gatgcagagg tagaatgtga cctgagcaat atggaaatca 120
ctgaagagct ccgccagtac ttgcaaaagt cgctcgag 158

```

<210> 1184
 <211> 249
 <212> DNA
 <213> Homo sapiens

```

<400> 1184
gaattcgcgg ccgcgtcgac gtccaagtgc tccattatca ttgtttacag gctattcttc 60
tactgaattg cttttgctcc ttggccaaaa gtcagataga tgtatttgtg tgggttggtt 120
gctgggtttt tgaattcttt tctgttgatc tctgtgtctg ttccctctgc tataccacac 180
tgtcttggtt actgtagctc tagtgatagg tcttcacatc aagcaagaat gctcactgcc 240
cccctcgag 249

```

<210> 1185
<211> 151
<212> DNA
<213> Homo sapiens

<400> 1185
gaattcgcgg ccgcgtcgac cctaaaccgt cgattgaatt ctagacctgc ctcgagggtga 60
taaccctatc tctacaaaaa aaagaaaaaa aaaaacaaaa aaaaacttag ctagggtgtgg 120
tggcatgcgc ctgtggtccc ggctactcga g 151

<210> 1186
<211> 267
<212> DNA
<213> Homo sapiens

<400> 1186
gaattcgcgg ccgcgtcgac gtttatttca cagcactgag gaggaccagc atgcattctt 60
ctcttaacac aagtcogaat caacaacctg acactaactt ggctcatggt ggagctcaca 120
gttttgcctac agaaaatatt attgggggat ctgaacaatg ttttgaacag cttcagccag 180
aatattcttc acaggaggag agccagcatg ctgatctacc aagtattttt agcattgaag 240
caagagattc ttccaaggc actcgag 267

<210> 1187
<211> 230
<212> DNA
<213> Homo sapiens

<400> 1187
gaattcgcgg ccgcgtcgac cgatgacgac gaggaggaga agctcacccc agtgaggcca 60
gggggggttcg tggccgtgtt ctgtcccgtg aggccttttc gccagacggg gcagctgtcg 120
tgctgtctcca gccagggcac gatgcagccg tcgtggaaca ggtgggttgca gggcagctgc 180
cgcacacgct caccacgcgc gtatgtcgtcc ttgcacacag ggcactcgag 230

<210> 1188
<211> 184
<212> DNA
<213> Homo sapiens

<400> 1188
gaattcgtgg ccgcgtcgac cttgtagaga gtgacaaggt attgtttgtt tccctatgtg 60
ctgtttgagc agtattttta ccaacttgta ttacagatgt tacagttcca tgttaggaag 120
tcagaaaaga cttgtgtttg tctttgttct gctgatgtgg agtcatgttt ggtgggggtct 180
cgag 184

<210> 1189
<211> 201
<212> DNA
<213> Homo sapiens

<400> 1189
gaattcgcgg ccgcgtcgac ggttttagtc tcaagaagtc ttggctatta aggggcactt 60
atccatacaa cctctacttt ttctaggcac taaaaggggg aaaaggctta atagccaaaa 120
tagctatcaa aagaccctaa agctggggtc ctgtacacca tgaaaggatt actttcatte 180
tcatgtaagg gactactcga g 201

<210> 1190
<211> 228
<212> DNA
<213> Homo sapiens

<400> 1190
 gaattcgcgg ccgcgctcgac cttggagaac agacttaata tgatccagtc ttcctatttt 60
 tattttatttt tgggtacagat ggggggtcttg tctctctgtg ttgcacaccc aggctcgtct 120
 ccagctcctg gtgtgtccag aattgggtcc ttcagtgagg ttcttggtct cgctgacttt 180
 aagaataaag ccgcggaccc tcgaagttag tgttacagtt ctctcgag 228

<210> 1191
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 1191
 gaattcgcgg ccgcgctcgac cgagttgatg gggctccttg acatatgttt ttccaaaatt 60
 tttgaagcct ttccaaattc tttgtttttg atacaaataa tgacagcagc ttccttgacc 120
 agttttctac tggattcgac cactgcttct gtcagtgtaa attccgtttt aatcatctcc 180
 agcacattga tagctgattc cagtgggtgt agctcagcct ccatatcaaa ggaacagtct 240
 aaattttccc ctctttcaat ccgcgacaga ctcgag 276

<210> 1192
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 1192
 gaattcgcgg ccgcgctcgac cagaacttta ttttagctct tttttaaaaa tgatttgcatt 60
 ggttagaataa cggcgaggac agccagggga ggggaagggc tctagggaa tttgcacttt 120
 ctataccttt gtactatgca ctgccctatt gattctacac ccaataatga tattacttga 180
 acccatccac ctcgag 196

<210> 1193
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 1193
 gaattcgcgg ccgcgctcgac ttcctcgatc atttcaaaga tgcttaaagc agattttctat 60
 gttctggaaa aaacaggact ttccattcag aactcatctc tgtttccaat actgttacat 120
 tttcatatca tgggaagccat gctgtatgcc ttattaaata aaacttttgc ccaggatggg 180
 cagcatcagg tgctgagcat gaatcgaaat gcagtgggga agcattttga actgatgatt 240
 ggtgactccc ggactagtgg aaaagagcta gtgaagcagt ttctcttcga ttctatacag 300
 aaggcggatc tcgag 315

<210> 1194
 <211> 264
 <212> DNA
 <213> Homo sapiens

<400> 1194
 gaattcgcgg ccgcgctcgac ccatacagta aggaaccatc caaaactgct aaacagaaaa 60
 ggagaactat aattctagga agtgggtcac aaggaaaagc tactattaga attggattgg 120
 ctacaaaagaa acctgtaagt agtggcagaa aacactccct tggtaaagaa tattatgcgc 180
 ccgcacctct tccacctggg gtgtctggtt tcttgccgtg gcgtactgca gaacgtgcaa 240
 aaagacacag gggtttccct cgag 264

<210> 1195
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 1195

```

gaattcgcgg ccgcgctcgac gaggatagca ggcgtaaata cctactgtaa tacaatgtca 60
ctgtgtttcc tctgcactgt tcccttccac ttcctcatcc tctttgtgac atggaagtcc 120
attgtcatag cttcagcttc agaagctgtc tgtggcattt gtaggattca aactcatgga 180
aaattccctc ctcttccccc cccactcgag 210

```

<210> 1196
 <211> 207
 <212> DNA
 <213> Homo sapiens

```

<400> 1196
gaattcgcgg ccgcgctcgac ccccccgcga cctctctgtc caagccaatc aaccagtcc 60
caagtcctat caatgctatt gctgaaattt ctcttgaatc catctacttc tttccacgtc 120
cacagccacc atcctacccc cagccttcac ctctcttttc ttgatgatgg catgacctcc 180
taccagttt cccggcaact actcgag 207

```

<210> 1197
 <211> 272
 <212> DNA
 <213> Homo sapiens

```

<400> 1197
gaattcgcgg ccgcgctcgac cgcacctac atttaccttc cttatatctc ccccgctctc 60
ctctccatag atctcctccc atttcccttc ccatggctcc catcttcttc ctgaaatgtc 120
tactccttca tgttccttta tgtatgtctt ccaatctttc cttccatagc tctcatcacc 180
ttcatatatt tcttccatct ttctcctccc acctgcctcg cctctgtgat atacccccac 240
tctccccctt ttatatcttc tccacactcg ag 272

```

<210> 1198
 <211> 263
 <212> DNA
 <213> Homo sapiens

```

<400> 1198
gaattcgcgg ccgcgctcgac cattgagaga gggaggaaag ttttatcatg acagaaatgc 60
tcatactctg aggatataat agagagtga tcttgaggga tagaattaat caaacaactc 120
tccttgatgc tggatatttt agcctaaagg aaaatataat acatgagttt agcttttaat 180
gtttcaacag cttcactgat tgtccagaag tcattgtgtg cccactttcc tcatgtgttc 240
atctattgcc agtgttcttc gag 263

```

<210> 1199
 <211> 343
 <212> DNA
 <213> Homo sapiens

```

<400> 1199
gaattcgcgg ccgcgctcgac ctggcggtt gagcgcgccc gacagcagct agaggcgctg 60
ctcaacaaga ctatgcgcat tcgcatgaca gatggacgga cactggctcg ctgcttcctc 120
tgcaactgac gtgactgcaa tgcctatctg ggctcgcgcc aggagtctct caagccgtcg 180
ggtcagtgcc cggggaatgc acaccgcct ggtaatgttg cggaaacctt cgcaaggcat 240
ttccccctaa gggcctggct gcaacccttg tttctgggg ctcgttttcg tggctcagag 300
gggcggggact gattctggcc tactttctcg acactcactc gag 343

```

<210> 1200
 <211> 187
 <212> DNA
 <213> Homo sapiens

```

<400> 1200
gaattcgcgg ccgcgctcgac ccaagattct gttaggattt ctgtgcatat agttagtaga 60

```

agaagtatca ttcaggggtg aaaaacaaag agccgtttta atgatgttga gtacatttgg 120
 ctgtttttata gcctttttct tccctccccc aaagaattct gtttgccctaa ctcccaaaca 180
 gctcgag 187

<210> 1201
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 1201
 gaattcgagg ccgcgtcgac ctgaccttg aagatatccc tggaattccc aagcaaggca 60
 atgcaagttc ctccaccttg ctccaaggta ctgggaatgg cgttcctgcc actcaccctc 120
 accttttgtc tggtctctct tgctctctct ctgccttcca tctggggccc aacaccagcc 180
 agctgtgtag tctggccccc gctgactatt ctgcctgtgc ccgctcaggg ctcaccctca 240
 accgatacag cgcattctga g 261

<210> 1202
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 1202
 gaattcgagg ccgcgtcgac cttgatccag cctgggtaac aaagcaagag cctgtctaaa 60
 aaaaaaaaaa agccagggtta tttttgtttg ttttgttttg tttttccctt tctcagttac 120
 tcattccctt tagattgaag gattgatgca tttatttatt tatttattct tttaccaagc 180
 ctcatgtact ttatgttttg agaagaggat tctgctaaat tcttgggatt attcagaggg 240
 ttatacacca acaaagaaaa aagaaagcca acaactcgag 280

<210> 1203
 <211> 155
 <212> DNA
 <213> Homo sapiens

<400> 1203
 gaattcgagg ccgcgtcgac aaaaaaaaaa agaagtactt cacattactg tcatcaaaaag 60
 tagattccac caccagagta ttgcaactt ggaatccagg ctgctaataa ttgttttggg 120
 aggaaagcat gatagtgtta ggattcgac tcgag 155

<210> 1204
 <211> 307
 <212> DNA
 <213> Homo sapiens

<400> 1204
 gaattcgagg ccgcgtcgac gttttgttat ataggtaaact ctgtgccgcg gtggtttgc 60
 gcccctatca acccatcagc taggtattaa tctgccatct tttaaagctc actttaactt 120
 ccaattttcc atgaagcttt tctgatctt cctcctcctt ccatcctgga aaatccttgc 180
 agttttgtct gcagcatcac acctagtgtc tagccatccc tactttgtcc ctacactttt 240
 tgaattgtct accaacaact tagagaggga gctagagatt gttgctggcc attgctccaa 300
 actcgag 307

<210> 1205
 <211> 586
 <212> DNA
 <213> Homo sapiens

<400> 1205
 gaattcgagg ccgcgtcgac agagaaatga aacggaagag aaaaaagga gtttctgccc 60
 ttcagagaga gctcaactgc ctgtgtgttg ctacagcctc ctccctgtt cacaaaaagt 120
 caaagtcac acccaaaact caaatctatt tttaaataag aaagaaggcc agtgaagagg 180

```

ggcaggcaag atgtggccaa ggaaggcatt ggggaaaagg taacatttgt actgggagtt 240
tggtagatga agaaggtaag aaggagaagt acagacagtt aaagatggca ttgaaattcc 300
agagtcccgaggaggaggt tgcagggaca gcagggtggca cttgatgagt tagaatttca 360
gatgtgatga gtttgaagca cctgggaggc atctaagtag acatgattac cagacacctg 420
gagctgaata agaggtcctg gagatattga tttagagggtg attgttctct catccatgta 480
tccattcatt caccagggca agggaaatgt gtacagtacc tactctaggc aggccctatg 540
ctggatatgt ggaatacaat gatgaacaaa acagatgccg ctcgag 586

```

<210> 1206

<211> 276

<212> DNA

<213> Homo sapiens

<400> 1206

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gaattcgcgg ccgcgtcgac gcctcgatca ctgcatttgc acagggtgaa gtctgtgtgc 60
ggcaagtgtg tgagggcctt cagcaggatc tgggcggtga ccgtgggtctg aaagaaggct 120
gggttgaact ggtacagctt caggacagcc aggttggtct ccagatcata ggcatatttc 180
ttggcctgcg tctctacata gcgctccagg gtggccagggt tctcaggatt gtacctgtcg 240
ataccctcgt cgattgaatt ctgacctgc ctcgag 276

```

<210> 1207

<211> 218

<212> DNA

<213> Homo sapiens

<400> 1207

```

gaattcgcgg ccgcgtcgac attgtgttag cctgttccct gagctctctt cgtgatcaag 60
aagactgac agataaatca agagacttgc caaaattac ctaggaaac tgtagcagca 120
gcagaaccaa actccggtcc ttgctaaatc tagataccag gctagctttt ctatggacc 180
agaattaacc catacaaatg tacaagctta tctctgag 218

```

<210> 1208

<211> 398

<212> DNA

<213> Homo sapiens

<400> 1208

```

gaattcgcgg ccgcgtcgac ccgagcctca gttgtcttct ctgtgagggtg ggaatgccgg 60
tgaatcctgc cgctggcgtg gatgagaagt gaatgcgtgc tcggagctgc gagtgcacgc 120
gggcaggagg cggccaggga cacttggttt ctccagggtt ggaaggcttc tagaagggtc 180
ctcatcaagg gaagtgtggc tggggggcgc gtctacctgg tgtacgacca ggagctgctg 240
gggcccagcg acaagagcca ggcagcccta cagaaggctg gggagggtgg ccccccgcc 300
atgtaccagt tcagccagta cgtgtgtcag cagacaggcc tgcagatacc ccagctccca 360
gccctcccaa agatttactt tcccatccat cactcgag 398

```

<210> 1209

<211> 456

<212> DNA

<213> Homo sapiens

<400> 1209

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gaattcgcgg ccgcgtcgac agaagggatc actcccatta gggcctgctt tgcttatgca 60
tgtgtgtgca catgcatgta aaccaggagc ctccagctca cggcctccag gcctgggcca 120
gttcttgctg ctccctgcgt ctcccccgac tggctgtgtc ctgagtaact ggaacatgag 180
actgtatctg caggactggc cccatggtgg ccgagtcaga agtctgtttc ctgtgagtcg 240
ccaccgttca ctacgtcttg cctccccatg ctttggagcc agtctgggtg ctccgtgtaag 300
gttctcaagg ctggtggcag ctacgtctgg ggtcaggaca tgtcggggtc atgcgtttct 360
ggcctgaca taagctgtct ggcctctctg tgacatgatg aaattgaaat caatccacag 420
tccatgaaat tgtgacactc caccagatat ctcgag 456

```

<210> 1210
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 1210
 gctcagggtc catatggata atcttcaagg gtaaattcac tgagatgaac tgcaaaactcc 60
 cctttccaca tgcagcagca ggacatacat gtccctgatgg gtttgtgtaa ccctgccaga 120
 atggctggca ggacaagtta actatcattc ccttcacaaa tcagtcagtc aggaaatccc 180
 tacgtgggaa ggatcacagg gcctacaaag aggcagtgac agcaaaactt cagctgctat 240
 tgaatctgaa tgcatttctg gttttttaac cagatcccca gcaagtaatt ttaacagccc 300
 gtaaatgtag agtatgctag actatgagga cacagatgcc cagcccagtg tgggggggtaa 360
 gttctacact gcactgtcct tccacagggc ccctcagggt cactcgag 408

<210> 1211
 <211> 389
 <212> DNA
 <213> Homo sapiens

<400> 1211
 gaattcgcgg ccgcgtcgac attacaatta tcatgctcac acctaatagt atattctatg 60
 tctctctggc tgtctatctt gatcaagtca ttccagggga atttggtta cggagatcat 120
 ctttatattt tctgaagcct tcatattggt caaagagcaa aagaaattat gaggagtatt 180
 cagagggcaa tgttaatgga aatattagtt ttagtgaaat tattgagcca gtttcttcag 240
 aatttgtagg aaaagaagcc ataagaatta gtggtattca gaagacatac agaaagaagg 300
 gtgaaaatgt ggaggctttg agaaatttgt catttgacat atatgagggt cagattactg 360
 ccttacttgg ccacagtga acactcgag 389

<210> 1212
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 1212
 gaattcgcgg ccgcgtcgac ccgcctcag cctccgaaag tgctgggagt acagggtgta 60
 gccactgcgc ctggcctcat tgtactcctt aacacaagaa gacttcaaca atgataagta 120
 gttgtttata aggaagcagg atcattacca aaataaatcc tgctaaaaca acaggaatca 180
 tgtttttaaag cctagtttgc taatttttgc tagtaggata agagtgatcg taatatctcg 240
 aacattacat agacacttaa aacctttagt tgtatttcat caaaaatctg ttcatacccc 300
 acgttggttt caaaacatac tatgcttttt ctccgtgtta ttccctatat tcatttttgt 360
 gtgtatgtgt atgtcacaaa tattgatatg cctgggctcg ag 402

<210> 1213
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 1213
 gaattcgcgg ccgcgtcgac gagggtgatg ggcggtgtct ggggcttcgt cggcttcttg 60
 gtgccttggt tcatccctaa gggtcctaac cggggagtta tcattaccat gttggtgacc 120
 tgttcagttt gctgctatct cttttggctg attgcagcaa acctcgag 168

<210> 1214
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 1214
 gaattcgcgg ccgcgtcgac caaaaaagtc cttttgaaaa agttgatgat gatgattttt 60
 acatcagaga atatctttag atcacgttta agagatgatt actgggtgta tgttagatag 120

caagtactgt ggatgggttta aggggtgaata ggaaatatct agatgttaag ggggtctcgag 180

<210> 1215

<211> 506

<212> DNA

<213> Homo sapiens

<400> 1215

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gaattcgcg cgcgctcgac cagcaatccc tccctaggtc aatcgctccc aaacccttaa 60
ccatgagact ccccatgaac cagattgtca catcagtcac cattgcagcc aacatgccct 120
cgaacattgg ggctccactg ataagctcca tgggaacgac catggttggc tcagcaccct 180
ccacccaagt gagtccttcg gtgcaaatcc agcagcagat gcagcagcag catttccagc 240
accacatgca gcagcacctg cagcagcagc agcagcatct ccagcagcaa attaatcaac 300
agcagctgca gcagcagctg cagcagcgcc tccagctgca gcagctgcaa cacatgcagc 360
accagtctca gccttctcct cggcagcact cccctgtcgc ctctcagata acatccccc 420
tccctgccat cgggagcccc cagccagcct ctcagcagca ccagtcgcaa atacagtctc 480
agacacagac tcaagaatta ctcgag 506
```

<210> 1216

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1216

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gaattcgcg cgcgctcgac gtaatttact aaggtttgaa atggtattct aacagtgagt 60
ccattgtctt gaggattaat ctgatttata agtaatactg atagacatat ttctgtacat 120
ctgagcagaa ataatgtcat gtttctagca tatgtaatat aaaaactctc gag 173
```

<210> 1217

<211> 287

<212> DNA

<213> Homo sapiens

<400> 1217

```
gaattcgcg cgcgctcgac gaacggtaat tacattgaga tttttaaaaa tatataaatg 60
cttaaaatta cagaagtaat aaaaagaatg gttttagaca aatcttatgg aaagtttttt 120
attttattct ttataaatta tttttatgga tatttgtctt tattagtgtg gtaatatatt 180
ttataacgct cataatttga actttcaggc taatgtacta taaatatttg tattacgcat 240
tactaccatc ccaaatgtac caaaacacgt ttagagagaa cctcgag 287
```

<210> 1218

<211> 327

<212> DNA

<213> Homo sapiens

<400> 1218

```
gaattcgcg cgcgctcgac cgatcttcat gaatgcaata tttatgatgt gaaaaatgac 60
acaggattcc aggaaggcta tccttaccce tatcccata ccctgtactt actggacaaa 120
gccaatattt gaccacaccg ccttcaacca gatcagctgc gggccaagat gatcctgttt 180
gcttttgcca gtgcctctgc tcaggcccggt ctcctctatg ggaatgatgc caaggtcttg 240
gagcagcccg tgggtggtgca gagcgtgggc acggatggac gtgtcttcca tttcctagt 300
tttcaactga atatcacaga cctcgag 327
```

<210> 1219

<211> 335

<212> DNA

<213> Homo sapiens

<400> 1219

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gaattcgcg cgcgctcgac ccttgagggtg attcatcttc caggctctcc ttccatcaag 60
```

tctctcctcc ctacgctctt gggtccttaa tggcagcagc cgccgctacc aagatccttc 120
tgtgcctccc gcttctgctc ctgctgtccg gctgggtccg ggctgggcca gccgacctc 180
actctctttg ctatgacatc accgtcatcc ctaagtccag acctggacca cgggtggtgtg 240
cgggttcaagg ccagggtggat gaaaagactt ttcttcacta tgactgtggc aacaagacag 300
tcacacctgt cagtccctcg gagaagaaac tcgag 335

<210> 1220
<211> 228
<212> DNA
<213> Homo sapiens

<400> 1220
gaattcgcgg ccgcgtcgac cttgatttat aactaaaata tttaaacata cgggtgtgctg 60
gactccattt gtactcttac ccagggcctg caaatgttag gagctggcct gaccaaggga 120
ataaagatta cgaatgtgtt cactttattt tattttattt ttttgagaca 180
gcgtctcgct ctgtcgccca ggctggaaaag cagtggcaca atctcgag 278

<210> 1221
<211> 270
<212> DNA
<213> Homo sapiens

<400> 1221
gaattcgcgg ccgcgtcgac gtggtttaag acaaaaacac ataaacaagt tcagacaact 60
gattgtatga ttctgggaat tctttgcttt cctttccttc tccctcggca ccacctcctc 120
tccccaggcc tccctgtcgg gcatggggag gaggttgagg ctacgcatct tgaggaatgt 180
gtcaagacag ccctcctcgt ccgcgtgca cggccagccg cctttgtccg ggaggacaga 240
cagaaacgca gcaaggcaca cactctcgag 270

<210> 1222
<211> 207
<212> DNA
<213> Homo sapiens

<400> 1222
gaattcgcgg ccgcgtcgac catcagcccg ccaagatggc gatgcaagcg gccaaaggag 60
cgaacattcg acttccacct gaagttaaac ggatattgta tataagaaat ttgccataca 120
aaatcacagc tgaagaaatg tatgatatat ttgggaaata tggacctatt cgtcaaatca 180
gagtgaggaa cacaccaaca actcgag 207

<210> 1223
<211> 345
<212> DNA
<213> Homo sapiens

<400> 1223
gaattcgcgg ccgcgtcgac ctctctgagc ccaactgggtc atatgcgtgt caccacacgt 60
gaactagtgt ggtggctgac tgcggacacc ctctgttctt gagccctggg cctgtgttct 120
tctcagacac tcccagactg aggggtggtg tgtggcgggt ggcagggttg ctgtggagac 180
tgtgtgatctg gagcctggtg ctggcacctg gctgagttt ccgtgggag ctggcgggga 240
cctgtgtctg tgctgtgac tgtgggtggg cgggcggcgc ctgggagtg ctcttgctca 300
ggaattgata ggaaccctaa cgactaggat acccccagac tcgag 345

<210> 1224
<211> 205
<212> DNA
<213> Homo sapiens

<400> 1224
gaattcgcgg ccgcgtcgac gctgattgag cctcttagat ctgtaggtta atatttttca 60

tcaaatttgg aaaatgcttg gccactattt attcaaaaatt tctgccccag tctctctcct 120
 ctgcttcttg gactccagtt atatacgtaa gaacactgaa tgttgctctac aggtcgtgga 180
 ggctttgtac tcccatccac tcgag 205

<210> 1225
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (171)

<220>
 <221> unsure
 <222> (173)

<220>
 <221> unsure
 <222> (175)

<400> 1225
 gaattcgcgg ccgcgtcgac gactcctgtg aggatgcagc actccctggc aggtcagacc 60
 tatgccgtgc cctcatcca gccagacctg cgggtgagagg aggccgtcca gcagatggca 120
 gatgccctgc agtacctgca gaaggtctct ggagacatct tcagcagggtg ntntnccagt 180
 gccaagtacc ctgctccaga gcgcctgcag gaatatggct ccattcttcac gggcgcccag 240
 gaccctggcc tgcagagacg cccccgccac aggatccaga gcaagcaccg cccctggac 300
 gagcggggccc tgcagggtccc tgagaactac ttctatgtgc cagacctggg ccaggtgcct 360
 gagattgatg ttccatccta cctgcctgac ctgcccggca ttgccaacga cctcatgtac 420
 attgccgacc tgggcccccg cattgcccc tctgcccctg gcaccattcc agaactgccc 480
 accttcacac ctgaggtagc cgagcctctc aagacctaca aaatggggct cgag 534

<210> 1226
 <211> 284
 <212> DNA
 <213> Homo sapiens

<400> 1226
 gaattcgcgg ccgcgtcgac cttaatacag acgtaattac ctgttattaa aatattagga 60
 aaatgaacat aagaaaaacg ttgagatcac tctcactctt gatgttgggc gtgggagggg 120
 tgccagccgt cattccttgg ccggctccct tgetcccgtg gaggaggggt gactccacc 180
 acctccccgg cgtgggtctc ttgagttcct cccggtttcc ccattcgaa cctcactgtg 240
 atggaggctg tctctgcaag aagcatttcc tgggttctcc tata 284

<210> 1227
 <211> 236
 <212> DNA
 <213> Homo sapiens

<400> 1227
 gaattcgcgg ccgcgtcgac gtgcgtgctc cttggtttgt tccacctgcc tcctcgatc 60
 ttcaatggca ctctccaaact gccttgccag ggtccacat tcccggtgtt tctcctccag 120
 ccgcagctgg gactggtgga ttgcctctc cctcttggca atcacctgta ggaactcgat 180
 attctgggca ctggtcgcct ccagtttctc ctccagttca tccaccttcg ctcgag 236

<210> 1228
 <211> 161
 <212> DNA
 <213> Homo sapiens

<400> 1228
 gaattcgcgg ccgcgtcgac atttttggtg caagcctggg tcgtcttttc tatgcacatg 60
 gggcagctat tttagaaaca cttggagtgc tttgtatgta gtcccgcatc ccatcttttt 120
 catttgacat cagtggtggg gaatttccac aacatctcga g 161

<210> 1229
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 1229
 gaattcgcgg ccgcgtcgac gaaaaataat tagtggtata gtcttaagat ttgttttcta 60
 aagttgatac tgtgggttat ttttgtgaac agcctgatgt ttgggacctt ttttctcaa 120
 aataaacaag tccttattaa accaggaatt tggagaaaaa aaaaacctg gttttttatt 180
 tttgtatttt attattgttt acttcaaact ttgttttaca gcgtcccca gctcgag 237

<210> 1230
 <211> 153
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (7)

<220>
 <221> unsure
 <222> (14)

<220>
 <221> unsure
 <222> (104)

<400> 1230
 gaattencgg ccgngtcgac ccaagatccc agtcacaatt atcacccggg atttaggtgc 60
 tgggaagaca acacttctga actatatttt gacagagcaa catngtaaaa gtagtagcgg 120
 catttttaaat gaatctgggg aaggcaactc gag 153

<210> 1231
 <211> 217
 <212> DNA
 <213> Homo sapiens

<400> 1231
 gaattcgcgg ccgcgtcgac atttgaatac catattattt ctttctattt gggtaatgat 60
 cgggttaata ggatttctta cttacatagt aggtgtggaa aaggtgggtt ttacttattt 120
 attttttttt agacagtctt actctgtcac tcaggctgga gtacagtggc gtgacctcag 180
 ctcaactgcaa cctccacctc ccgggttcaa gctcgag 217

<210> 1232
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 1232
 gaattcgcgg ccgcgtcgac cggaatctcc tctgtgaatt ccacctgect agttctcccc 60
 tttcatcttc tctctcttcc cacatcatca aagaggaaaa gctctttgtt caaaaggaag 120
 agaaaacgta aagcatctta ttttctttta aaagaatttt aaaccatgaa aaagatattt 180
 ttaaagaaat tcacgctcga g 201

<210> 1233
 <211> 160
 <212> DNA
 <213> Homo sapiens

<400> 1233
 gaattcggcc aaagaggcct agagcttagt gtgtaaaatg ttgaggctct tcgttcaggt 60
 catttctctg acagggacaa gactgtcgtt tcagcagctg cagcgaagg ttggtgatct 120
 tcctctcgag gcaggtctag aattcgaggt tctccctata 160

<210> 1234
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 1234
 gaattcggcc aaagaggcct acttttggtc catgtaagt ctaccggtg ctgggggagg 60
 agtcacgggt tatttggaaa tgtcagttgc aatcatggtt ctgtcatttg actgcacagt 120
 atcagaggag cctgttaacc tctctgtgcc ttagtttctt agcccatgaa agagatcatt 180
 gcctgaccca gggactacct caagggtctt tgatgaggac aagtgcacgt aggaagatgc 240
 aagagccttt agtaccaagg ttctcaacac tgactacatg ctggaatgac tgtgaagctt 300
 ttaaaaaatg ttagtgccca cttcctcgag 330

<210> 1235
 <211> 493
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (15)

<220>
 <221> unsure
 <222> (107)

<400> 1235
 gaattcggcc aaagnggcct agttgaagac gacaccacgg ctttgatgga atatcagata 60
 ttgaaaatgt ctctctgcct gttcaccctt ctgtttctca cacctgngta ttttatgcat 120
 ttgtcctctc caatgtatat gcacagagag gcacaggcat gtggactgtt caggcagaaa 180
 cttgtctaca ttaccatctg gactgcaaga gaattattata catttaaacc tgtcttataa 240
 ccactttact gatctgcata accagttaac ccaatatacc aatctgagga ccctggacat 300
 ttcaacaac aggcttgaaa gcctgcctgc tcaattacct cggctctctg ggaacatgtc 360
 tgctgctaac aacaacatta aacttcttga caaatctgat actgcttacc agtggaaatc 420
 taaatatctg gatgtttcta agaacatgct ggaaaagggt gtccctcatta aaaatacact 480
 aagaagtctc gag 493

<210> 1236
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 1236
 gaattcggcc aaagaggcct agataaatct tcctcatggg ggctctcctg tgtattgcag 60
 gatagaataa agagtctgac tctgtttttt atcattgacc accgacaacg ttccagtcct 120
 accacctctt atttccctct tgcctctcat ctgtgcaagc cttactaag aaagcttgaa 180
 ccattctctc cttggctcca gggggaagt caaaccaagc aaacacaggt ccatgggtgg 240
 gaattctcac ctagctcac ttctaacca taataaaaac ccaagccaca ttcagactga 300
 cttgggtctc tgcttgcac tctccagaaa gccttattat gtgagtaata aacctttgca 360
 taccctctgg ttctccctat a 381

<210> 1237
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (143)

<220>
 <221> unsure
 <222> (440)

<400> 1237
 gaattcggcc aaagaggcct agggcttgaa ttatttaatt tgatccattt atttaattaa 60
 aaaaaaagg aaggggaaag aaatcatggc caaaaaaata ttatttaacc cccacccac 120
 ccccaaagct ctaggcattc atntgagcat caccacatc ccactcattg cctgatattc 180
 ggatgggtggc atactctgcc ccaggaaaac tccttgaagg cacgggggca atgggtgcca 240
 attttagctc tcagcaggtt agtcaaccag acaaaactggg gggctaaagt ccagaaattc 300
 ttccaggtt ttctgctcat tggctgagca catacaaact gtcataagcc tgtaaaattt 360
 aaggggagtt ggggtggggc gtaagagcaa aaggacagca ggagaagaga aattacgggt 420
 cacccaagtt ttctctgggn tagtggctct ggatatagat ttaaagagag gtcagagtaa 480
 atggactcca gggtttcttat caaagaaaac tatccctcaa tgaggagctg agatgtgcca 540
 tgcaagagag ttctttacctg cagggttctcc ctata 575

<210> 1238
 <211> 454
 <212> DNA
 <213> Homo sapiens

<400> 1238
 gaattcggcc ttcattggcct aatcttgggtg cactaattaa ggtcttctct tctagaacca 60
 aagaactaaa actttcagca gaatgtcaga accacatctt catttggcag acacacaatg 120
 ctttgtttat tatttgctgt ttgctgaaag tgttcatctg tcagatgtca gaggaggaat 180
 tacaacttca ttttacttat gaagaaaaat ctcttggcaa ttacagttct gactcagaag 240
 atcttttggg agaattgctg tgctgtttga tgcagttgat cactgatatt ccactcttag 300
 atattacata tgaaatatca gtagaagcta tatcaacaat ggttggtttc ctttctgcc 360
 aactcttcca caaagaagtt ttgcgacaga gcatcagcca caagtatttg atgcgaggtc 420
 catgtcttcc atacaccagc aatttctccc tata 454

<210> 1239
 <211> 356
 <212> DNA
 <213> Homo sapiens

<400> 1239
 gaattcggcc aaagaggcct acagacggcg acagtggcgg cggcgccatg gcagggcttg 60
 caggatccct gctgccttgg tgatcccggg ctgacagcca gagagcacag cggctcagct 120
 cctggagagt gagggttgaa gaaagcggag ggcagccgcc tgcgcccgtt gggtccatt 180
 aggtcgggtc ctgcagcggg gcccggcagc cttggtgaag gccctgcccg gcagagatca 240
 tgtattgccc ccagtggctg ctgcccgtcc tctcatccc caagcccctc aaccccgccc 300
 tgtggttcag ccactccatg ttcattgggtt tctacctgct caacgttctc cctata 356

<210> 1240
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 1240
 gaattcggcc aaagaggcct acctggcccg tgtgggtggag ggctggaacc ggcattgagc 60

```

tgagcggaca gaggttctca ggggacttca agaggaacac caggcagcag agctcaccag 120
aagcaagcag caggagacag taacccgcct ggaacaaagc ctttctgagg ccatggaggc 180
cctgaatcgt gagcaggaag gtgccagact gcagcaacgg gaaagagaga cactggagga 240
ggaaaggcaa gctctgactc tgaggttggg ggcagaacag cagcgggtgt gtgtcctgca 300
ggaagagcgg gatgcagctc gggctgggca actgagttag catcgagagt tggagactct 360
tcgggctgcc ctagaagaag aacgacaaac gctcagggca ggtctaggtt ctccctata 419

```

<210> 1241

<211> 696

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (16)

<220>

<221> unsure

<222> (18)

<220>

<221> unsure

<222> (108)

<220>

<221> unsure

<222> (112)

<220>

<221> unsure

<222> (133)

<400> 1241

```

gaattcggcc aaagantnct aaagaaagct agtatttgta gttatcctat tctaaaaaac 60
tactattcaa ctaagacaac taagaaaaat atattccaat aaaaaatnta anattacatt 120
atgagggtga acntgactat ttaaacaatc tgtactttta ttaattaatt aagaaccac 180
attagtaaaa aaaattttta aatccagatt agtattaggt cttcttttaga atttgtctag 240
cagggttttc agtttccacc agaaaacat aaaaatactt atctattggg ttatcctgct 300
agacaaaaat cttagaaagc tctaacatta atctagagtt tttaaaaggg caaattgtag 360
aatctaaaga gcaggatatc gaatatgtct tctattcatg tgaatggcag gtgtgtatgg 420
caaaacttttc tcttctccag gtgttttgct ctgatcaacc cttgttttcc ttatgggtcaa 480
atcagcatct tcagcaggca ctctgcacag aatcattggt ttcagaacat gatgccctgt 540
ttattcaaaa gaagagtctc attcagagaa acactaataa ttttggctaa atagctaata 600
ataattaact taaaaatatt tagttgtgac ttttatttaa acattaaaaa agagttaaag 660
caacatatga atatggtaaa aaatgttctc cctata 696

```

<210> 1242

<211> 247

<212> DNA

<213> Homo sapiens

<400> 1242

```

gaagctatca atttggatac cagtctggta tctgtcttac ctcccttcac tcacaactga 60
cttggaaacca ataaaggagg gagtgcgaat gcctatcttc cctctcaagt ttctccagac 120
tttactgcag cagcatgtgt cgctcctggc cctgctgtgc catccctctg cctcctcacc 180
acatctctca ctcatagact cagggtcttc ctctgggtcag tactcccatg actccatgca 240
cctcgag 247

```

<210> 1243

<211> 349

<212> DNA

<213> Homo sapiens

<400> 1243

```

ggaatgtaag ctctatgagg gcaaggactc ttgtcttgtt tactgctgtg ttcttctagc 60
ataaacacac acacccctt agaacaattc tggatacaca atagaaattc agcaaatgtt 120
tgggtgaatg aaatggcctt aaaatactat tttaaaactt gtttctcttc caggttatat 180
tttcttattt aatgtgtgta aaaatgtggt ggtatgaagt tttttggttt taaaaccttc 240
aatagttagt ttttgtgggc acattgtatt cataagagct gttaattcta gccataactt 300
taaataaatg tattggttgc ttgtgtacat gactatctgt aaactcgag 349

```

<210> 1244

<211> 251

<212> DNA

<213> Homo sapiens

<400> 1244

```

ggagcccacc gagaggcgcc tgcaggatga aagctctctg tctectcttc ctccctgtcc 60
tggggctgtt ggtgtctagc aagaccctgt gctccatgga agaagccatc aatgagagga 120
tccaggaggt cgcggctcc ctaatattta gggcaataag cagcattggc ctggagtggc 180
agagcgtcac ctccaggggg gacctggcta cttgcccccg aggccttcgc gtcaccggct 240
gcaaactcga g 251

```

<210> 1245

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (89)

<400> 1245

```

gcttggccat ggtcgcttcc ttttttccaa tctctgtggc agtttttgcc ctaataaacc 60
tgcaggttgg tactcaggac agttttatng ctgcagtgtg tgaacatgct gtcattttgc 120
caaataagaa cagaaacacc agtttctcag gaggatgcct tgaatctcat gaacgagaat 180
atagacattc tggagacagc gatcaagcag gcagctgagc aggggtgctc aatcattgtg 240
actccagaag atgcacttta tggatggaaa ttaccaggg aaactgtttt ccttatctcg 300
gaggatatcc cagaccctca ggtgaactgg attccgtgtc aagaccccca cagatttggg 360
cacacaccag tacaagcaag actcagctgc ctggccaagg acaactctat ctatgtcttg 420
gcaaatttgg gggacaaaaa gccatgtaat tcccgtgact ccacatgtcc tcctaattggc 480
tactttcaat acaataccaa tgtggtgtat aatacagtat tctctgag 528

```

<210> 1246

<211> 257

<212> DNA

<213> Homo sapiens

<400> 1246

```

gcaagaacat gaaacatctg tggttcgctc ttctcctggt ggcagctccc agatgggtcc 60
tgtcccaggt gcagctgcag gagtccggcc caggactggg gaggccttcg gagaccctgt 120
ccctcactcg cgtgtctctt ggtgacccca tcagtctcta ttcttgagc tggatccggc 180
aggccccagg gaagggactg gagtggattg gcactatcta taccactggg aatatcaacc 240
acaatccctc cctcgag 257

```

<210> 1247

<211> 162

<212> DNA

<213> Homo sapiens

<400> 1247

```

gaattcgcgg ccgcgtcgac gtaagcaata tttagttaa aggcatttac aagtcataata 60
acttaaatcat tttaaatgaa tgggtgtgaat acaagcagct tttctttttt ttttaatttta 120
ttctctgttta gtatttctga ttacgtaaca ggaagtctcg ag 162

```

<210> 1248

<211> 234

<212> DNA

<213> Homo sapiens

<400> 1248

```

gaattcgcgg ccgcgtcgac ccagcatttt gttccctttct atttcaccgc tgcctcagtaa 60
caacctacac ttcacttttt gatgccattg tcattcactc attcattcat tatttgcctca 120
ttcattttgt tcaacaatga aaccaatgct caagcagatg gaggtggctg ggtgcagtgg 180
ctcacacctg taatcccaac cctttgggag ggcgaggtgg gcagatcact cgag 234

```

<210> 1249

<211> 156

<212> DNA

<213> Homo sapiens

<400> 1249

```

gaattcgcgg ccgcgtcgac tttccctttt atgtgtaatc ctttgttttc ccggagtcac 60
tacgtcttag tgtcttgttt gctcagtttc ctatgtatct atcacaaatt cagcccagac 120
cctgatagaa gtgtgaatct caacacattc ctcgag 156

```

<210> 1250

<211> 203

<212> DNA

<213> Homo sapiens

<400> 1250

```

gaattcgcgg ccgcgtcgac agaacagtca gtttaccgaag gaaggccatt atctttgact 60
tgcaaaagctt ttacagccaa acattgtttg cttacagttc ttttaatacaa atgaagacct 120
taatggtaag aagagtccca ttactactcc ctttgtacat ggaggtcacc ccaataaaga 180
aaggacgatg tcacgtcttc gag 203

```

<210> 1251

<211> 175

<212> DNA

<213> Homo sapiens

<400> 1251

```

gaattcgcgg ccgcgtcgac gagaactgct gctttgtctt cctgtgttag tgagaccagt 60
tgtgtgttat cagatagtct agactttcaa cagcagttat aagtgcccca gttttctcct 120
tactggttat tccttagagt ctaagggtgt gtattaataa atgaggtggc tcgag 175

```

<210> 1252

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1252

```

gaattcgcgg ccgcgtcgac cctcgattga attctagacc tgccctcatcc cagcctttgt 60
tttattatca tccattttac atcatcatat gcgataaacc ccaaaatgca ttgtcactac 120
ttactcgag 129

```

<210> 1253

<211> 178

<212> DNA

<213> Homo sapiens

<400> 1253

```
gaattcgcgg ccgcgtcgac aaaaaagaga aactacttta ttgatgtttt ttctctctga 60
gccccctgctg gtcttattga atgtgtcacc ttgtattata attgttttta ttgtcactg 120
ttgtcactact gcttactctt taccctcttc ccacatacat acacaaatgc tactcgag 178
```

<210> 1254

<211> 456

<212> DNA

<213> Homo sapiens

<400> 1254

```
gaattcgcgg ccgcgtcgac gcttcggcga tgggctcgtc actcgggctg taatactgct 60
ccagggggca gttacaggaa ggtaaccatt tacagccaga aaagggttaa tatactcttt 120
tcattgtttt cagaaaatgt ataaaggctc aatttgtaac agcaagggtt tcaaattaag 180
acaattcgta tagagtagca attgctgcac gaagtaaagt cttttttttt tttttttaac 240
atttgcatt taagaaggct gccctgcggt attcataatt cattgtttac cacaagggtg 300
gttcataaat ttaagcttta aaaacgatct gtaagttagt actttggctc ttgggagctt 360
atttcattaa gaaattttcc ttgattgacc tcagggcagc tggggcactc caaggggcta 420
tggcgataaa aagctcaatt ggtaaagaca ctcgag 456
```

<210> 1255

<211> 205

<212> DNA

<213> Homo sapiens

<400> 1255

```
gaattcgcgg ccgcgtcgac gtgcctctaa aattaaatat ttgggatctt ttgattagtt 60
ctggatgcat caaataagca taactaaact attctttttt tgtttgtttt tgagacggag 120
tcttgctcag tcgcccgggc tgaagtgcct cagctttctg agtacctgtg actacatgtg 180
tgcaccacca tgcccagttc tcgag 205
```

<210> 1256

<211> 271

<212> DNA

<213> Homo sapiens

<400> 1256

```
gaattcgcgg ccgcgtcgac ggaatctagt tgccaaagga taaactgagt ttgacttcat 60
tagtgcacaa atgatagggt tgtgtagagt tattatagca ttaatcaatt tgatggattg 120
gaaatatgac agaactgaag cagcatgtaa tattagtgcc tattattctg gaaattatgt 180
cttcacctac attcatgttg cagaggagtc atgttgtaca tcaagaaggc agaacttaa 240
gaaacaaaca acagagggca tcttactcga g 271
```

<210> 1257

<211> 245

<212> DNA

<213> Homo sapiens

<400> 1257

```
gaattcgcgg ccgcgtcgac cttacatttg cttagggttt tcccaagatt cataggcctc 60
ttgtctttat gcatctaata atatcatcta ctgtacaaac ttttaaccatc ttttcaacac 120
tgatgattct cccctgctc tgtcctttca gtactgcttt tctcctgaac tccagaccca 180
tatctcttgc tgcctgcaag cagtttatcc tgaatccct tgactccaca actgggtccac 240
tcgag 245
```

<210> 1258

<211> 217

<212> DNA

<213> Homo sapiens

<400> 1258

```
gaattcgcgg ccgcgtcgac caccatccta ctggagaaag catactttta tgctaagatc 60
ttacttttaag cgttttatgt gaacaaaaga tgtacatata gtaagtatta ctcccgtagt 120
cctcaaattt actataactt ttgtacttag tatatgtttt atatttggaa aacagcacta 180
cgcttagttt tctgtagatt cctgagtgat gctcgag 217
```

<210> 1259

<211> 156

<212> DNA

<213> Homo sapiens

<400> 1259

```
gaattcgcgg ccgcgtcgac atttctgctc attgtttcca ttctgcaccc cattttttct 60
gtttttttcc tgagattatt aggaatgttt tatcataggg tattattaat ttctctctta 120
gtggcctctt tatcacattg tcacattatc ctcgag 156
```

<210> 1260

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (22)

<220>

<221> unsure

<222> (24)

<400> 1260

```
gaattcgcgg ccgcgtcgac anchagatgg aggattcggc ctccggcctcg ctgtcttctg 60
cagccgctac tggaacctcc acctcgactc cagcggcccc gacagcaccg aagcagctgg 120
ataaagaaca ggtttagaaag gcagtggacg ctctcttgac gcattgcaag tccaggaaaa 180
acaattatgg gttgcttttg aatgagaatg aaagtattatt tttaatgggtg gtattatgga 240
aaattccaag taaagaactg agggtcagat tgaccttgcc tcatagtatt cgatcagatt 300
cagaagatat ctgtttattt acgaaggatg aaccaaatte aactcctgaa aagacagaac 360
agttttatag aaagctttta aacaagcatg gaattaaaac cgtttctcag attatctccc 420
tccaaactcg ag 432
```

<210> 1261

<211> 188

<212> DNA

<213> Homo sapiens

<400> 1261

```
gaattcgcgg ccgcgtcgac ggtaagtgc tttggaaagt ggaatagagt aagggggatt 60
cagaattgtt gaggatagag gttgcaattt aaagtgaggt atactgggtg gagtatcctt 120
gagagagtga tatttaggaa aaatttaacg gagaagtaac catgttaata actggggcag 180
ttctcgag 188
```

<210> 1262

<211> 161

<212> DNA

<213> Homo sapiens

<400> 1262

```
gaattcgcgg ccgcgtcgac ttaaagttaa agtgatacta aattaagtca ctgttccctt 60
gcttaaaact gttcagtgct ttccatttca ttgagaataa aattgaagct cttttcatgg 120
```

tctctaatat tctacataga cttacccttg tatacctega g

161

<210> 1263

<211> 209

<212> DNA

<213> Homo sapiens

<400> 1263

gaattcgcg cgcgctcgac aaataaccct tcaacaagtt aaattgcctc taggatttgc 60
 tttctccaga ttaaattatc ccaaagtctt ttcttttttc tcataaaggc cttttcaaaa 120
 agaaacattg gttactttta aaatttcttt ttctagctct ttataaaact ttattctttt 180
 cataaatgta ccacaggata ctctctgag 209

<210> 1264

<211> 323

<212> DNA

<213> Homo sapiens

<400> 1264

gaattcgcg cgcgctcgac gagagtggca tgcattgataa aattcaaggc agcagtacac 60
 ctctgggaca gtctgtagca gttccctaatt ctacctgtat ccattgagcg agataggagt 120
 gaagcctcct aggtctccag tctgcagcat ctctgtcaca tggaaacctg atgggtgcct 180
 ctgtgagggg ggccaattat gcacagtga cactaaacac agatcatttt agccttecta 240
 attagccact aataaaaaga cactgaagta agtatcctga agatcaaaga gagatttcca 300
 ccattgctca ataactactc gag 323

<210> 1265

<211> 220

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (188)

<400> 1265

gaattcgcg cgcgctcgac atttaatat cactcttggg actttacaat cagtoactgc 60
 tccctatgga atttcatagc tcacttttat aacagacatt ggtaaaataa gaatctattg 120
 ttaaagtact catctaaaat attttaatac tcattggagt gatttttgct agcaaagctt 180
 aaaaattnac ataattgctt gtttcacct gatcctcgag 220

<210> 1266

<211> 289

<212> DNA

<213> Homo sapiens

<400> 1266

gaattcgcg cgcgctcgac cagtgtataa aacagtctct taattaaact tgcctgaatc 60
 ctctataaac ttggtaattt taggcaatat agtctccct cagtgttcat gagagattgg 120
 ctccaggaca cccctcatat caaaatcctt ggatactcaa atcccttata taaaatagtg 180
 tattatttgc atataactta tgtaccttct cctgtatact ttaaatacgc tetagattac 240
 ttataatatt aatggtaaaa ccacaattac ttctgcacca actctcgag 289

<210> 1267

<211> 243

<212> DNA

<213> Homo sapiens

<400> 1267

gaattcgcg cgcgctcgac tgaatataaa tttttttata gcatgttaatt tgcttatata 60

```

aaaaagttaa taaaagatag gttttttttt aagtatatatt ttctaaaaga ggaagattgg 120
gtttttttgt ttgtttttgt ttattttttt tttttttttg agacaggggc tggctctgtc 180
atccaggctg gagtgcagtg gcattatctc agctccctgc aacctccacc tcccagctc 240
gag 243

```

```

<210> 1268
<211> 152
<212> DNA
<213> Homo sapiens

```

```

<400> 1268
gaattcgagg ccgcgtcgac gggctccaga aaaccagggg gactcaaac agaatgaaac 60
tgcaaacatt cgttttttt gctattttta aaaatttggg aatatggcgg ggtgcgggtg 120
ctcagcctg taattccagc actttcctcg ag 152

```

```

<210> 1269
<211> 192
<212> DNA
<213> Homo sapiens

```

```

<400> 1269
gaattcgagg ccgcgtcgac ggttttatga acattttatt agccgttgta ttgtgggttg 60
ggattgtata ccattgcttt tatttgtatt ttttttttac ttcttttaga gacaggggtc 120
cactctgtca cccagctctg agtgcagtg tgtaataata gttcagtga gtctogaact 180
cctgggctcg ag 192

```

```

<210> 1270
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 1270
gaattcgagg ccgcgtcgac attaagcatg acatatecct catatgatca ctcatcttga 60
gttaattaga aaatacctga gttcacgtgc taaagtcatt tcactgtaat aaactgacta 120
tggtttctta agaacatgac actaaaaaaa aagtgggttt tttccaccgt tgcctgattat 180
tagacagtag gaaatagctg ttttcttttag ttttacaaga tgtgacagct ttagtggtag 240
atgtagggaa acatttcaac agccatagta ctatttgttt taccactgat tgcactattt 300
tggtttttta acagttgcaa agctttttta tggcataaaa gtataattga aatctgtggt 360
atttatttac aaacatgtct cgag 384

```

```

<210> 1271
<211> 173
<212> DNA
<213> Homo sapiens

```

```

<400> 1271
gaattcgagg ccgcgtcgac ggtggctgcc cctgtcccag cccgcaaac cccctgctcg 60
gcgtccctcc gcccggtgac tcttgggtgg ttgccccgag aggcgcacgg ccgcctggtt 120
cgcgggggag cgaacgggag gccggggaat gcgaaccggc gcaaactctc gag 173

```

```

<210> 1272
<211> 228
<212> DNA
<213> Homo sapiens

```

```

<400> 1272
gaattcgagg ccgcgtcgac caacctctcg ctgtccatgt attttcttct gctgggaatc 60
ctggccctct cccacacat cagccccctc atgaataagt tttttccagc cagctttcca 120
aatcgacagt accagctgct cttcacacag ggttcctggg aaaacaagga agagatcctc 180
aattatgaat ttgacaccaa ggacctggtg tgccctgggc cactcgag 228

```

<210> 1273
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (24)

<400> 1273
 gaattcgcgg ccgcgtcgac cgcncattta tgatttggaa caactagggt ttatataaga 60
 tacaaaaatt aaacaaagga tttgtgcatt gcaaaaagct acaaggaggt ccaaagcagg 120
 aagttatgca aaacatagca tttgcccttg actgggagtg caggggaagat gtggaagagc 180
 agagagggaag agaaggaggc tagggttagg tacctactca agaaggttga aggggaattgt 240
 ggaaggagag gggccggtgt cctgctcctg ctgtcaaaact ctagaacctt gtggggctgc 300
 tgtgatccca cagagaacgt gaagagggt cccagttccc tatggccagt gccaaagctgc 360
 aagtacatta gggagtatct ccaaggcttg tgggtgggga artccag 407

<210> 1274
 <211> 171
 <212> DNA
 <213> Homo sapiens

<400> 1274
 gaattcgcgg ccgcgtcgac gagagatttt tacttatata atagtccctag agtttgcagc 60
 tggtaaaacc agaggctaca tccagtatta ctgctaagag acattcttca tccaccaatg 120
 ttgtacatgt atgaaaatgg tgtactgtat actttaacat gcttcctcga g 171

<210> 1275
 <211> 274
 <212> DNA
 <213> Homo sapiens

<400> 1275
 gaattcgcgg ccgcgtcgac cttgaattgc ctttagagca ttgtgtccgt ggtttcaatt 60
 gtatcacaga atgttacaca gactgaagtt aagtggttac tttttgtcag gggttatctt 120
 atttttctcc attcagttta acatgtgtac tgcaaaagac agtatttttg gaaatgaagg 180
 catagtcttt catttaaaaca tgcatacagag ggatttcaact aatgaaagca ttcaaatcat 240
 gtgcctagtt cttgtttcta gcagcccaact cgag 274

<210> 1276
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 1276
 gaattcgcgg ccgcgtcgac cctgattcca aagggatatt tctgcgacac ttacaatgaa 60
 attccaacct ggcaccatct ttttcaactgc agaatgcatg aagggtggtg catcatgtca 120
 tttcgacatg catttaaatg taatgaaagg cacacagctc gag 163

<210> 1277
 <211> 254
 <212> DNA
 <213> Homo sapiens

<400> 1277
 gaattcgcgg ccgcgtcgac tcttgagata atttaatgta aatctgtatg gtgtgttttt 60
 ttttaatatc tcgttttttat cttttgattg gctgtgttta cagtgaacat ttctctact 120
 ggataactat gtgtaaatg ccattagggg tttataagcc tttacaacca gtttttaggc 180
 aggaaatgtc cacagagttt gaagttttct ccttagggaa gttgttatgt tgctatagta 240

agggagtact cgag

254

<210> 1278

<211> 181

<212> DNA

<213> Homo sapiens

<400> 1278

gaattcgcgg ccgcgtcgac cgattgaatt cttagacctgc ctcgagtgat ctgcctgcgt 60
tggcctccca aagtgcgtgtg attacagacg tgagccactg tgtctgtctt gtctctgata 120
tttatatgcc attatgtggc ctctactgcc ttaggattct aatgttccca ctaagctcga 180
g 181

<210> 1279

<211> 179

<212> DNA

<213> Homo sapiens

<400> 1279

gaattcgcgg ccgcgtcgac ccattcccttg tatttctagc tgtttttttt gtttttttct 60
aggtgttttt tgttttttta agcttctaag tgaatcaact aatataatc ttaagagaat 120
tagctgtaaa gatattcata ccattgctct tcagacacat gcagctagtgt ctacttgctc 179

<210> 1280

<211> 239

<212> DNA

<213> Homo sapiens

<400> 1280

gaattcgcgg ccgcgtcgac aaacaaacaa aaaaagcatt tcttgagag aagaagcatg 60
tacagatgag caagtggaga ctaaagatgt ttgagtggat gtagtagacag gtgaacaggc 120
gggcatttgt ttttattatt gttacttatt tatttttaaa ttttctttt ggatgctccc 180
tcacccccct cctccttccc caggcaggta tttcgataga taaaggatgg gtgctcgag 239

<210> 1281

<211> 213

<212> DNA

<213> Homo sapiens

<400> 1281

gaattcgcgg ccgcgtcgac gatttttagaa gctatagaca ttgtttaaga taactaagaa 60
tacttggtcta agaagtataa tttgctaact attaaggact ttcttttttt aatgttgtag 120
actattcttc ctactctttt ttgggttttg ttttgttttg tagagactgt ctactatgt 180
tgcccaagct ggtctcaaac cctaatctc gag 213

<210> 1282

<211> 148

<212> DNA

<213> Homo sapiens

<400> 1282

gaattcgcgg ccgcgtcgac atttggactt gtacctgata agcaagctca ggaattaact 60
tggtagccac cacaaaacct aaagaaagt aggcttagaa gtgcaactta atcacaaatt 120
agattttaac acacacgcat ttctcgag 148

<210> 1283

<211> 186

<212> DNA

<213> Homo sapiens

<400> 1283

gaattcgcgg ccgcgtcgac gggaatcagg gaaaggctgc ctcttttgta tctcaactgg 60
 tattgattat tgctatcaac tatttgggga gaaaaaatca aaatgaagcc ctgtcaaatt 120
 ttagaagtac tatcttttggc ctttcaaaca ctttgtgatg acaccttaag aaaaacaaag 180
 ctcgag 186

<210> 1284

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1284

gaattcgcgg ccgcgttgac tgcagttgtc gccaaacttg ggtattcatg gaatttctag 60
 taaatgaaat acctatactt tgatactgaa gactgccaaa tacataggaa ttttctttct 120
 taaaaaacag taatgaagac tatatctcct ttcccagcac tgaatgtttt actagcactg 180
 ggtgctcacc atgcaactga agaaaatgtg aaatctctcg ag 222

<210> 1285

<211> 190

<212> DNA

<213> Homo sapiens

<400> 1285

gaattcgcgg ccgcgtcgac ggtgtacgga tatttttctc aaattatcta ttttgttgat 60
 gttttttgta cccattctgt tgtgtttgtt tttattaatc tataatatca tctgtttcaa 120
 tatggaacac cccacagggt cagggtctgag gtgctccctg ttggcagctc ctaaagagaa 180
 gcagctcgag 190

<210> 1286

<211> 177

<212> DNA

<213> Homo sapiens

<400> 1286

gaattcgcgg ccgcgtcgac attgtacatg cttctggact tgctttttcc cttagtgtac 60
 cttggggaaat ttgccttgat atatggagag atgcagctgc tttgtttcat gttttgcttt 120
 tttttttgga cagtgggaca tgcgtgtccc aagtgtgttt atttagccga tctcgag 177

<210> 1287

<211> 293

<212> DNA

<213> Homo sapiens

<400> 1287

gaattcgcgg ccgcgtcgac caaaaaaat gctagagtaa gaaatcagag gaatgggaaa 60
 atgaggggtg gattaaatga aatacgcata aattactata caaaatgcct gcagtgaag 120
 ccggttgaaat ttgttgagat agattgcaaa ttttacttta gtcttcccag aagtcacggt 180
 aaagaagggg acagaagtat tgtgtattca aaatccaaag tgcctttggg ataaaagtaa 240
 ataggtcatt caggagaagg acatgttttc ttaattctaa aagctgactc gag 293

<210> 1288

<211> 277

<212> DNA

<213> Homo sapiens

<400> 1288

gaattcgcgg ccgcgtcgac ctaaatttaa gtatgcagtt ctctttttgc tgggtttatt 60
 cgtgctggtt catcgtgagt aagaagcctg ccttgcctgt cctgggaaga tgccatagtt 120
 ttcgttactg gatgttttga gtagatactg gtctgtgatt ggtggaatgg agaacacacg 180
 tgttggtgct tctgggtagc actgggttgc attagtttat gtttccatgc cagagtttgt 240

gtgggcgggc gcattgtcac cacagagtgc actcgag

277

<210> 1289

<211> 266

<212> DNA

<213> Homo sapiens

<400> 1289

gaattcgcg cgcgctcgac aggagctatg cctccaaggt ggctccttac acccatataa 60
atgtgggatg gaattctgaga ccttagaagg gcccttcggt gtaaacctctg aaggttagtg 120
ccagaaggag gtgggtcaact tcctaagtgg cctgggggtca agatcatttt cacctagaaa 180
gacaccagac tatagaaatc taggcaatga caaactgcta ccattttcct catatgattt 240
tttttcaggc agcttgggga ctcgag 266

<210> 1290

<211> 139

<212> DNA

<213> Homo sapiens

<400> 1290

gaattcgcg cgcgctcgac caagaattta ttttttttat tttttaaaat taaaaataat 60
ttatatctcc tctgttgcac gaggattctc atctgtgctt ataattggta gagattttat 120
ttgtgtggct atcctcgag 139

<210> 1291

<211> 154

<212> DNA

<213> Homo sapiens

<400> 1291

gaattcgcg cgcgctcgac gagagagtgt actttatcct cacaagtcta ttagtgcata 60
ttaaatacata atgaagcaa tccttggcca ggtgcagtgg ctcatgcctg taatcacagc 120
actttgggaa gcggaggcag gcagatcact cgag 154

<210> 1292

<211> 269

<212> DNA

<213> Homo sapiens

<400> 1292

gaattcgcg cgcgctcgac gtaaatgctt attagttaac caggcagggt taaccacgtt 60
attatagaaa ctctaagagg tttcacatgt gttttttttt tgttttggtt tgtttggttg 120
ttttgagatg gagtctcgtc ctgtcaccca ggtgggagtg caatggcgtc gtcttggctc 180
cctgcgacct ctgcctcccg ggttcaagca gttatcctgc ctcaacctcc caagtagctg 240
ggattacagc caccgcgcaa ccactcgag 269

<210> 1293

<211> 207

<212> DNA

<213> Homo sapiens

<400> 1293

gaattcgcg cgcgctcgac gctaattggc gtttgcattt gtgtcttcaa acagatcctg 60
gttacagcca ttttgtgtga ttcaacttcg ggtttaagta atgcaggatt ctgcaaacaa 120
ggtgtcgccg tccaaatgta ctgtcctggc atagagagca ctgctttggt ttccactggt 180
gtagagaaaa ctaggagaaa gctcgag 207

<210> 1294

<211> 225

<212> DNA

<213> Homo sapiens

<400> 1294

```
gaattcgcgg ccgcgctcgac atttcagtggt tattttttatt ttctactccc tttcccttta 60
gcttggtttca gatttaaaatt gtccctcctc ttctagtatt ttaagggtcaa aggttagggt 120
attgatttga catccttctt gtttgtaaat gtaaatattt acagttataa attttatctt 180
tagatgcac aaaacaaaat gtattggcaa agagtcatac tcgag 225
```

<210> 1295

<211> 197

<212> DNA

<213> Homo sapiens

<400> 1295

```
gaattcgcgg ccgcgctcgac taacaatatt gattcttcca atccatgaac atgggatatc 60
tttccatttt ttgtgtgtct tcttcattta ttttatttat ttattttttt gagatgggtg 120
ctagctctgt ccccatgtct ggagttcaat ggcattgatct cagctcactg caacctctgc 180
ctcctggggt gctcgag 197
```

<210> 1296

<211> 171

<212> DNA

<213> Homo sapiens

<400> 1296

```
gaattcgcgg ccgcgctcgac ctgacttttc tacatatgct ttatcaacct cttaattaaa 60
ccatcattgt ctattttgag agataactgc gctgcttccc attgtgtgtt ttaaattgta 120
ttgttcagtt tgagtcaaat aaaaggatat ttaatctatg gtggcctcga g 171
```

<210> 1297

<211> 253

<212> DNA

<213> Homo sapiens

<400> 1297

```
gaattcgcgg ccgcgctcgac cgagttgttg aattgtcaag gatgtcacac agtggacaga 60
aagtcgaagc gagggagggt ctgacccagt gctgatggag attagtgggt ggtgtctggt 120
atgaggatct actgactga caagggtgtc ctacagagtg gagtgtgtc atatggcctg 180
ggacgggaga ggccaagca cagcaaggac atcgcccgat tcacctttga cgtgtacaag 240
caaaaccctc gag 253
```

<210> 1298

<211> 170

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (32)

<400> 1298

```
gaattcgcgg ccgcgctcgac ctgcttttta anacaacaaa caagaacaac aacacaaaac 60
tggtaatgat ttggagtaat catgcgggca tattgagtct gggtagtggt tcgctgggtg 120
tagagtgggt gagacttctt gggaggactt tttccgctc cactctcgag 170
```

<210> 1299

<211> 185

<212> DNA

<213> Homo sapiens

<400> 1299

```

gaattcgcgg ccgcgtcgac ccgggatttta ggggcaggat aaagattagt aatagctagt 60
aaggaacaga attcaaaatg tggctctctaa ttacaaaatc tatagtttta acttcattta 120
ctgctactag tgtccctgat ggtataactt tcttaaatct ttcagtaggt ccagggtgatc 180
tcgag 185

```

<210> 1300

<211> 245

<212> DNA

<213> Homo sapiens

<400> 1300

```

gaattcgcgg ccgcgtcgac acttagtata actttgcact catttaaatt cagtgaatta 60
ggttttcagt ttctctagaa ggaaaaaagc caactttttg agcctgcctt tgtttctctg 120
cgtgtaagtg tatgtgtata taagaaatga aaattcattt tctcaccagt ttactagttt 180
atgtaagttg gttccctttta atccatgttt ttgagaatgg acttgggaaa gcaatgggac 240
tcgag 245

```

<210> 1301

<211> 358

<212> DNA

<213> Homo sapiens

<400> 1301

```

gaattcgcgg ccgcgtcgac agtccctggg gtgtggagcc gctagggttt gcacccatga 60
aacagaaaag ccacaccctc caaggtgtgg ctttcatttt gggactgctg caggaggggc 120
agaggcattg ctgagactgc ctggcaacgg ctgatgcccc aggtaggacc ttttccattt 180
caaagtgggtg ttctaagtct gcgtccaaca ctgtgtagga aaaagggttg tgcaaaaata 240
ttcctgggtca tccaccattt aaaatagtta gatgaggcta ttgccttgat gacagctgtc 300
cacactctc atgaaattaa cccgtatgcc ggggcatttc caaatgtctg aactcgag 358

```

<210> 1302

<211> 150

<212> DNA

<213> Homo sapiens

<400> 1302

```

gaattcgcgg ccgcgtcgac gaatttctgt attaacaaaa tattttaata aatcttaaga 60
gaaaatcttt taaaaaaatt ttagggcaca atgaggcacc acttctctg ggcaaatgca 120
tttgtctctc atttagtgga cattctcgag 150

```

<210> 1303

<211> 200

<212> DNA

<213> Homo sapiens

<400> 1303

```

gaattcgcgg ccgcgtcgac agcatgctta ttcttacttc taaaaatata gtcatgtcat 60
ggctgctttt ctggctcactg ctacccttgt gtcaacttgt atcagcagta ttccaaggaa 120
gcaaatggca cgttgaaatg aggataatc aaggaaggta tatttacaaa gatattagta 180
ataaagatgc tggactcgag 200

```

<210> 1304

<211> 188

<212> DNA

<213> Homo sapiens

<400> 1304

```

gaattcgcgg ccgcgtcgac ctggtttgtt atagatgcat ggagtggcta ggaaagctgt 60
tagaggtagg atatctagta agagccgtgg tgcctagccc tggctgcaca ttggaactgt 120

```

ctggagaaca tttaatggcc cgatgccag gttcacccca gatcaattat atcagcagct 180
cactcgag 188

<210> 1305
<211> 203
<212> DNA
<213> Homo sapiens

<400> 1305
gaattcgccg cgcgctcgac cgcaggattg ggactgatac agaggccgcc acggagcccg 60
ccggagccac cgttcctgct gctgccgccg ctgcccgaat cggaaccgtc gggccgcagc 120
cgccggcaat gccgcgaagg aagaggaatg caggcagtag ttcagatgga accgaagatt 180
ccgatttttc tacagatctc gag 203

<210> 1306
<211> 160
<212> DNA
<213> Homo sapiens

<400> 1306
gaattcgccg cgcgctcgac caacattgaa gaggatcact gcttttcata agtaagttga 60
atattgaagt tctgttttc ttaaattctgt agaaataaac ttgcatgtt tgtgggttat 120
gttaatttct aagctaattt gttgtgtgtg tcagctcgag 160

<210> 1307
<211> 585
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (18)

<220>
<221> unsure
<222> (23) .. (24)

<220>
<221> unsure
<222> (277)

<400> 1307
gaattcgccg ccgggtcnag ccnnttcctc taagcgttta cttacatggt taagatatcc 60
tggaacctct ctttctcgca ttaacctttg gccttcggca gcatataagc aattagtctc 120
ttccaaaaat tttagttcaa atgaatcttt atacacctgc aggtcagaca gcatgccag 180
gaggctccgc aacaggctcc ggtccacggc ctgcgcgctc ctctcgcgct cgatcagcag 240
taggattcca tcaatgggtt tactctgaac cattttntca ctaataatat gggttctaaa 300
cagttctaat cccatatccc agatggaggg cagcgtggag ttctgcagca cataggtgcg 360
gtccaagaac aggaagatgc ttctgatcat gatcatttgt ctgcagtggc cctgccagca 420
cgtgttaatc ttctttaaaa ataaaacact atctagttag tcttctctaa acggaaggat 480
ctgtgccttg acgtggtctt cacaggcctg acgcagttgc ttgtagagca ttggggagac 540
tttgtgagaa cagagatttt ccacagcctg gttagagctcc tcgag 585

<210> 1308
<211> 219
<212> DNA
<213> Homo sapiens

<400> 1308
gaattcgccg cgcgctcgac ctttaaatgt tttttctacc ctcttctct cttctctgaa 60

ttccagttac acgttttttag atattttgat attgtcctaa aaataacatt gcctctgtac 120
atcttttttc agctgttttt ctctttattg tttagttttg ccatttggtt ttataattta 180
gttcaggaca caaagatgag ggttaggaga agcctcgag 219

<210> 1309

<211> 176

<212> DNA

<213> Homo sapiens

<400> 1309

gaattcgcgg ccgcgtcgac cacgttagtg tagacatggc cttgggggct gagcgcagca 60
gccaggctgc cagggctggg ggcgggtagg aggcacggta gttgggtggg gggagagggg 120
cctgggtggg ggcggtcagt tagcctggct gggtagggt gatgagggtga ctcgag 176

<210> 1310

<211> 182

<212> DNA

<213> Homo sapiens

<400> 1310

gaattcgcgg ccgcgtcgac gccaggaata tgttctgtaa aaacgtgttt tatatgattg 60
tgcagggtgt cttactgtcc ccagaactac ctgaatcaga ctgctgcccc gcagggtggca 120
ctggaaataa cctcctgtgg aatgtttctc atgccccctc cttatggcag gacacactcg 180
ag 182

<210> 1311

<211> 171

<212> DNA

<213> Homo sapiens

<400> 1311

gaattcgcgg ccgcgtcgac tgaagagaga gcaccacatg gacatccgag atgtaaccat 60
ctaggcagtg agggcagcat gttagcagag aggtgaagga tgaagacaga gcaccaaagt 120
ggcatccgag atgtaaccat ctaggcagtg agggcagcat gttgcctcga g 171

<210> 1312

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1312

gaattcgcgg ccgcgtcgac ggagaatcac ttgaacctgg gagatagga ctgcagtga 60
ccaagattgc tccactgcac tccagcctga gagacagaga ctccatctca aaaaaataaa 120
gaaaccgcgc ccagcccgaga cccctcatte ttaaagaata gtacttcctc tctaagtgat 180
aagatcctga tgaaactgtt aaaattcagg cgagcgctcg ag 222

<210> 1313

<211> 216

<212> DNA

<213> Homo sapiens

<400> 1313

gaattcgcgg ccgcgtcgac gtaacaacca gttgagaaaa agggagggaac tgaagataac 60
tcagggtttg agctagggta gaggaataat ttggaaggag aagataacaa actgcatttt 120
agacccactg agatggaagc ctgagaagga catcattgtg aaaatatcca gcaagcccat 180
ggaaatgtgg agaggtcaga accaaataaa ctcgag 216

<210> 1314

<211> 251

<212> DNA

<213> Homo sapiens

<400> 1314

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gaattcgcgg cgcgctcgac acagctctct cctcatttta atccaagggt agagtgttaa 60
tcctgagaac agccaggatt cacagttgaa aaataattta aaaagctctt ctgggggtat 120
agatttttag ttcaaaaaaa catatcaata ttcagagtta tacagaaact gacagagggtg 180
ttatttttaa aagattcaga agaatggatg actcactctc ttcaactaga tttcatcacg 240
ggatgctcga g                                     251
```

<210> 1315

<211> 201

<212> DNA

<213> Homo sapiens

<400> 1315

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gaattcgcgg cgcgctcgac attagagaat aaaagggaat gacttaaaat ttttccatgt 60
atgtattgat ttatagatta tttttctgta cggttttgtaa aatacatctt tttttctttt 120
tttgagacag tcttactctg gcattctaggc tggagtgcga tggcgcaatc tcagctcact 180
gtaacctccg ccacctcga g                                     201
```

<210> 1316

<211> 328

<212> DNA

<213> Homo sapiens

<400> 1316

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gaattcgcgg cgcgctcgac acctgacgtg gcctctagag aatgttgccc agggcagtag 60
agcctccctg gtggcaactg tgtcagcacc acctgcaca gcccggcaga acctgcctt 120
gccctggcca tctctgtctc tgagattcac cacggagggt agcttggtta taggtgagct 180
gttaagagta ggggtttgtg ttcttggaag ttagggctta ggagccacac atttccttct 240
tgcccagctc ttgcttgctt agaccatttt ctttatcttt ttcaatgaac acttgctcaa 300
gtgtgctcct tctcccatc ctctcgag                                     328
```

<210> 1317

<211> 254

<212> DNA

<213> Homo sapiens

<400> 1317

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gaattcgcgg cgcgctcgac caaaaacatt aaaaaacttt cctaagtcac ttagagtgat 60
tttaaaactt ttttttaact gtatcacact gcttctcgat agttcaagtt aattatctta 120
tttgatatct tagacttggg acagtgtctg tgttcccagg tggctgaata ctaaggctaa 180
atattagctg aatgccttcc atgtgctcaa cctgtctatt gtctagaaaa ctaaaatcta 240
ggctgggact cgag                                     254
```

<210> 1318

<211> 203

<212> DNA

<213> Homo sapiens

<400> 1318

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gaattcgcgg cgcgctcgac tccgtattta gtttcttttt ctctgtgttc aatctctgga 60
tttgacctc tagctccctt tcagctttct gtttctcatt gtttgcttct ttttcttctt 120
ccagctgatg ttccacttgt ttcttctgtt gtttcaaaga ttgatgggtg tcattcagtc 180
gactgatttt tatggacctc gag                                     203
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<210> 1319

<211> 271

<212> DNA

<213> Homo sapiens

<400> 1319
gaattcgcgg ccgcgtcgac ccacttttta gtaggcaaag acactttctac cacaacaatc 60
aggtaatttc ctcatatttg tgaatatgga agtgattgaa tgtttctatc ttatttttga 120
ttctataaat aacttcataa gtctctgcac acaaataaggg tcagattaag cctcgacttc 180
tccaaagagt tctcaaaaaca cgaagaacaa acttttaagt ctcttgatat tcttcatgta 240
ccatttatat ttagttgctg gtcaactcga g 271

<210> 1320
<211> 576
<212> DNA
<213> Homo sapiens

<400> 1320
gaattcggcc aaagaggcct agaagctgat caagttttctg gccttgcaga gaatacatca 60
gctttttccc tcccgggtcc aaccttcacc gggcagtgtc gggacacatc agctggcttc 120
tggagggcac cacatagaag tgcaaagaaa ggaggtacag gcccgagctg tgttctaccc 180
cctcttaggg ttgggaggag ctgtgaacat gtgtatcga accctctaca tcgggacagg 240
agctgacatg gatgtgtgcc ttacaaacta tggtcactgt aactacgtgt ccgggaaaca 300
tgcttcgata ttctacgatg agaataccaa acattatgag ctgttaaact acagttagca 360
tgggacaacg gtggacaatg tgctgtattc atgtgacttc tcggagaaga ccccgccaac 420
cccccaagc agtattgttg ccaaagtgcg gagtgtcatc aggcgcgcgc ggcaccagaa 480
acaggacgaa gagccaagtg aggaggcagc catgatgagt tcccaggccc aggggcccga 540
gcggagaccc tgcaattgca aagccagcag ctcgag 576

<210> 1321
<211> 115
<212> DNA
<213> Homo sapiens

<400> 1321
gaattcgcgg ccgcgtcgac ggctcctcac taatcaataa cacaagtgtc aagttctaag 60
tatttaaaaa aacaaaagac tgcaggtgac tctttctctc aggtcccatc tcgag 115

<210> 1322
<211> 557
<212> DNA
<213> Homo sapiens

<400> 1322
gaattcggcc aaagaggcct agacagaaga taaatgaaag tataaaaaaa cctttaagta 60
gtaaagaggg cactcaaaaag tgtatttctg ggtatagtgc tgtcttccca gtagggtaga 120
tgtcaggctc atctgttaat aaaagtcaac accaaaatga tggtaggaag ttgttggttt 180
tgggggaaag ttcaaaaattg gggctgtagg acatgtaaat catgaagata cgatttttta 240
aaatagccaa atagtaatat aggtatgcta tggtagagat cttgattgtg catccattaa 300
tgtatagtgt gcttaaaatg tctataggct aaggaattat tttgactttg atatgtggac 360
aggaaggagc ctctgaaagt aacttgaaga aattgatatt ttcagttttg tagcatcata 420
tagtctaatt ggaatggaca gagatgtgag gcagagatat caggaagcca ttacaggagg 480
ccgggtgttg tgtggtaaat agtgactgcg gcagagagaa cgaaattata ttgtaaagt 540
agagacagct actcgag 557

<210> 1323
<211> 376
<212> DNA
<213> Homo sapiens

<400> 1323
gaattcgcgg ccgcgtcgac caagcagcag cgagtaccag tcccttttct gtctctgctga 60
caagctcacc ctctgtcacc tgctcaacat catgaaggtc tccaccactg cccttgctgt 120
tcttctctgt accatgacac tctgcaacca agtcttctca gcgccatag gagctgacac 180
cccgactgcc tgctgtctct cctacagccg gaagattcca cgccaattca tcgttgacta 240

ttttgaaacc agcagccttt gctcccagcc aggtgtcatt ttcttgacta agagaaaccg 300
gcagatctgc gctgactcca aagagacctg ggtccaagaa tacatcactg acctggaact 360
gaatgccgta ctcgag 376

<210> 1324
<211> 372
<212> DNA
<213> Homo sapiens

<400> 1324
gaattcgcgg ccgcgtcgac caaagtgatg agcatggttt cctattcctt tctggagatc 60
gtgtgtgtct acggctactc gctgttcate tatatcccca cagcagtcct gtggatcatt 120
ccccagaggg ttgttcgttg ggtccttgc atgattgccc tgggcgtctc aggcctctgtg 180
ttggtaatga cattttggcc agctgttcgt gaggataacc ggcggtgcgc ctgggccacc 240
attgtgacaa tegtgttgc tcatgtgctg ctctctgtgg gctgcttggc ttacttcttt 300
gatgctccag agatggacca cctcccagca gctataacca ctcccaacca gacagtaaca 360
gcggcactcg ag 372

<210> 1325
<211> 234
<212> DNA
<213> Homo sapiens

<400> 1325
gaattcgcgg ctgcgtcgac aggggaaggcg ctatagagag aaattaaatt tcacaaaagt 60
ataaaagcaa agactggcta aaatctgtaa ctctcatgagt aagaataaca acaataaccc 120
attctataat taactctccc acagtgaaca atctgctaca cattccttga tgaggaatga 180
acctagctta ccacagtgga aacctgccac aactgcaagg ccgggggttct cgag 234

<210> 1326
<211> 537
<212> DNA
<213> Homo sapiens

<400> 1326
gaattcggcc aaagaggcct aggatctgta atgttgatta gtcttttagcc ataaccacta 60
cacttttaga aagacagaaa aatgtaagaa tttgttttta ccataatgag tcttaagtag 120
gttcatgac tacattgggg cctgggatta tttttttaat ttttaagttg catgagatag 180
cctaataaat ggaggtgggg ccaggcatgg tggctcacac gtgtaatccc aacactttgg 240
gaggctgagg aggaaggata gcttgaggcc aggagtgtga gactagactg ggcaacatag 300
caagaccccc tctctacaaa gcacaacgaa aaacaacaaa tggagtgtg ctatgttgta 360
ttgctttgca caaaattagg aacagggtgt tgacaattga atttgttttc tgtgaattct 420
aacctctaaa ggcatgctta gaggtcaagg accttctgt gtagtgtgtg caaaagcaat 480
ctccacagga cagcactgct tccatgcttc atacatcagg aaatgaggcc actcgag 537

<210> 1327
<211> 206
<212> DNA
<213> Homo sapiens

<400> 1327
gaattcgcgg ccgcgtcgac caaccatttt gtctgcac tcctctttcc tgtagagcct 60
ttgaagcatt gtattttggg aaaattcttc tgtaataact ataactttta taaatggta 120
agttatttag aattatctcc agtgcctact tctcccttct tctgtataaa tctgctactt 180
caattaagtt ctctcccatc ctcgag 206

<210> 1328
<211> 178
<212> DNA
<213> Homo sapiens

<400> 1328
 gaattcgcgg ccgcgtcgac atttgatacc tttagatagcc ttccactaag tattccagcc 60
 gccacatggg gtcacccatt gaccctggac cactgccttc accacttcat ctcatcagaa 120
 tcagtgcggg atgttggtg tgacaactgt acaaagattg aagccaagag aactcgag 178

<210> 1329
 <211> 162
 <212> DNA
 <213> Homo sapiens

<400> 1329
 gaattcgcgg ccgcgtcgac catgtgggtg gctgtattac tcatgtgtca gatgtaccag 60
 atatcatgtt taggtattac tacaaatgaa agaatgaatg ccaggagata caagcacttt 120
 aaagtcacaa caacgtctat tgaaagccca ttcgtcctcg ag 162

<210> 1330
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 1330
 gaattcgcgg ccgcgtcgac gtctctcaaa aaaaaaaaaa aaagatcgtg tgtcacctgc 60
 acacaacatt cacaaactaa agccaaattg tattttttaa atttccttcc tcccttctcg 120
 ctccctgaga ctgttttgat tgacatcttt tgtgtttcta tattttcga ggcagtattt 180
 tctttgtatg ttaatcatag ttatagtaaa gtcagcactc gag 223

<210> 1331
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 1331
 gaattcgcgg ccgcgtcgac gttctctaca acagaagcca agaaggaagc cgtctatctt 60
 gtggcgatca tgtataagct ggcctctcgc tgtttgcttt tcataggatt cttaaatect 120
 ctcttatctc ttctctctct tgactccagg gaaatattct ttcaactctc agcacctcat 180
 gaagacgcgc gcttaactcc ggaggagcta gaaagagctt cccttctact cgag 234

<210> 1332
 <211> 137
 <212> DNA
 <213> Homo sapiens

<400> 1332
 gaattcgcgg ccgcgtcgac ttgtgcatac tgtaagcaaa ttgcttagct tctctagaca 60
 tcaactgtgt tggagatttg cctagcacat ataactaaat ggtgctcacc tgcactgcac 120
 tcacacactt actcgag 137

<210> 1333
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 1333
 gaattcgcgg ccgcgtcgac cgagtttctt tctttcagta agacatacca aagtttctgt 60
 aaatcttcat tacttttggt ccttagttgc tgacaggctc atgctgctcc agattttact 120
 tttcttgc cccagttttt tgggtcatca aaaaattctc gttgacaga cctgcctcga 180
 g 181

<210> 1334
 <211> 120

<212> DNA
 <213> Homo sapiens

<400> 1334
 gaattcgcg cgcgctcgac tgcataatata ccataaacac tgtgaagaag caaccattag 60
 gcacaggaat ccagccagat aaattaagta gaaatgctca tctttcattt atgcctcgag 120

<210> 1335
 <211> 157
 <212> DNA
 <213> Homo sapiens

<400> 1335
 gaattcgcg cgcgctcgac gtacttgaag attaaaggcc ttactgagga gtatccaacc 60
 cttacaacct tcttcgaagg agaaataatc agcaaaaaac accctttctt aactcgcaag 120
 tgggatgcag atgaagatgt tgatcggaac actcgag 157

<210> 1336
 <211> 205
 <212> DNA
 <213> Homo sapiens

<400> 1336
 gaattcgcg cgcgctcgac gtcactgggg gtttcttctt tgettgttt ettcctcctt 60
 accctacccc ccactcacac acacacacac acacacacac acactttcta taaaacttga 120
 aaatagcaaa aacctcgaac tgttgtaaat catgcaatta aagttgatta cttataaata 180
 tgaacttttg atcactttac tcgag 205

<210> 1337
 <211> 209
 <212> DNA
 <213> Homo sapiens

<400> 1337
 gaattcgcg cgcgctcgac caagcttctg ctatagctcc tcctcaaaaa catttcacag 60
 ctcatcacgg cctgtagaat agagcccaaa ctctttttta gtgggtatacc aagcccttca 120
 tgatctactt ccactatcca gcctcattta ccactgtcct tgtttcctat ctgctatccc 180
 actgcaaacg acatgcagct cccctcgag 209

<210> 1338
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 1338
 gaattcgcg cgcgctcgac cttttttaag atagaaaaat ttttaggttt ttgttaccaa 60
 atctgtcagt cttttacttc attgtatttt tcagttatgg ctagaaagac cttttgtacc 120
 acagattata tttttatttt ttctactaac tttgtatctt ttttatgttt caaaatttac 180
 atttatctgg aatcagtatt gctcgag 207

<210> 1339
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 1339
 gaattcgcg cgcgctcgac tgattggaaa tcgaactgga aaccggaagg caggagatgt 60
 atgtctcctt gggatgtatg gggaaatcac acagagctgt tagtacttca gtcatgggat 120
 ttgtctcat gctatgcata tgggcctcac aactcgag 158

<210> 1340
<211> 194
<212> DNA
<213> Homo sapiens

<400> 1340
gaattcgcgg ccgcgtcgac accagaacag agagggttaat ggtgtccacc acacgtcttt 60
ctcattcttt tctcctttat cttcactctg attttcttt tgtcattcaa cgcttactcc 120
cttccccata cctcagtcct ccaggtgaca cctgggctct tttctgcctg aacagcattc 180
cccaccaact cgag 194

<210> 1341
<211> 236
<212> DNA
<213> Homo sapiens

<400> 1341
gaattcgcgg ccgcgtcgac agtaatccca tgtacttatt tcttaaatac ctaggaagtt 60
cttcttggtg gctcctcttg gccctccct cttctccccc caaccaccca tccgtcaagg 120
caaggaatgg cctctccctc cacagaggca acggctgcag agggagcact gtggctgcca 180
tcccagttcc tcttcaaagc caaacagaca cgcgtgactc aaatccaaca ctcgag 236

<210> 1342
<211> 262
<212> DNA
<213> Homo sapiens

<400> 1342
gaattcgcgg ccgcgtcgac catactgtat ttttttgaag cggatcttaa acagtatcta 60
taagtattta ttcattcata agcatttcag tatttgtctc taaaagataa ggctctcttt 120
ttaaaatcat tatcacacct aagaaaaagt taataattcc ataatatcaa catatagtca 180
tatgtttaga ttgccagttg tttcacaaat gttatgtgtg tgtatacttt tcagtttatt 240
tttgactcag gatccctcag ag 262

<210> 1343
<211> 178
<212> DNA
<213> Homo sapiens

<400> 1343
gaattcgcgg ccgcgtcgac cccctgcctc gaggagatta tagtctattt ggagagatag 60
atgggtcaaca aattattaca taaataattc atacagttgt gataggtact acaaagaaga 120
cgtataagtt gctatgaaag tttataatag gggaatttta cgtatccttg ggctcgag 178

<210> 1344
<211> 201
<212> DNA
<213> Homo sapiens

<400> 1344
gaattcgcgg ccgcgtcgac attttccctc cttattttgt tatacatacc cttcccttcc 60
tccccctgct ttcgtacatt cattcctctt cctctacct ccagcacatc tacttactgg 120
tgctgtgctg tgtgtcagaa gataaaacag gtgtattatt gtataatgaa tttgtatac 180
atgtttatga aatggctcga g 201

<210> 1345
<211> 384
<212> DNA
<213> Homo sapiens

<400> 1345

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gaattcgcg cgcgctcgac cccagcttaa ccatataatc tgtgtgactt tgggtgaatg 60
attgaaacga tctgtgctcc gtgtcaccat ccacacggta gggatcacag ttggtctctg 120
tctctgggag gtctgtgggc tttaaatgag acagtagaga tgaagtgtt agagctgtgc 180
cccggtcatg gccagtgtgc aatgagatgg tctcagagta ttatggctgg agtcaccact 240
tgtattacca ggaagcccg cctctgtgat tacaggatc caactatgg gactctgcac 300
ctcttccttt ttctcttctt ttctcattcg tcttattacc atttctgaa attaaatcag 360
aacacacagg ggtcgcacct cgag 384

```

<210> 1346

<211> 250

<212> DNA

<213> Homo sapiens

<400> 1346

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gaattcgcg cgcgctcgac gaggagagat cgaattcgcc tctgtctctc aggcctctct 60
gtctctgtct tttgttttga tgccggcgct gctgctgtg gcctcccgcc tttgtttgt 120
accccgagtc ttgctgacca tggcctctgg aagccctccg acccagccct cgcgggctc 180
ggattccggc tctggctacg ttccgggctc ggtctctgca gcctttgtta cttgcccccc 240
ccagctcgag 250

```

<210> 1347

<211> 328

<212> DNA

<213> Homo sapiens

<400> 1347

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gaattcgcg cgcgctcgac ctggctctcg gcaagtccgc ctacttgttt gtcaagctgt 60
cccgctgggt gggaaggctg cgcttggtct ttacgcgctg gcccttcacc cactggttct 120
tctccttctg ggaagaccg ctgatcgact tcgagggtcg ctcccagttt gaaggcgcg 180
ccatgcccca gctcacctcc atcatcgtca accagctcaa gaagatcacc aagcgcaagc 240
acaccctacc gaattacaag atcaggttta agccgttttt tccataccag accttgcaag 300
gatttgaaga agatgaagag tctctgag 328

```

<210> 1348

<211> 139

<212> DNA

<213> Homo sapiens

<400> 1348

```

gaattcgcg cgcgctcgac ctctggccta tgattgtgtt gtgtcttgca ttaaaaaaaa 60
aaatttgaga gtggtagaat tactttctgt atctgaaata cctgagatgc actttaaaact 120
gttgagatgt ctactcgag 139

```

<210> 1349

<211> 175

<212> DNA

<213> Homo sapiens

<400> 1349

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gaattcgcg cgcgctcgac cagaaagtac aaggagacag agaaaaaatc cgctctgaca 60
agccacatcc atgattgatt gtaaggggat tattataatt gatagcttct ttatcatggg 120
attgctagta tcatttgtac ttgctgggtc ttttaaagga acagactcac tcgag 175

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<210> 1350

<211> 166

<212> DNA

<213> Homo sapiens

<400> 1350

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 aaaaagtctt aaaatttttt aaaggatggg gtcttgctat attgcccagg ctggagtgcg 120
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 <212> DNA
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 actaatcttc ctttcataga acctctattt tttttttttc taaacttgag tttgagtcct 120
 tgttatgggc atcataaggt aatggttagc atgttttaaag atattcctct tccaaatccc 180
 agcgaactcg ag 192

<210> 1352
 <211> 273
 <212> DNA
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 catagctcac tgcagcctca aacctctagg ctcaagcgat cctcccactt cccaaagccg 180
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<210> 1353
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 1353
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 acgccggaac ccaaatccag atttateccc ggtgtttgac tgatgcagct ctgagagatc 180
 accttccatg tcgctctcga g 201

<210> 1354
 <211> 211
 <212> DNA
 <213> Homo sapiens

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 ctgctgtacc ctctctctac ctctgctgac tgcagcaggt cagagtgggt ctgagggcct 180
 ctctggcacg gctggcctgc cccacctcga g 211

<210> 1355
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 <212> DNA
 <213> Homo sapiens

<400> 1355
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 ggtatttttt ttttgagaca gtcttgctct gtcacagggc tggagtgcag tggcgcaatt 180
 tcggctcact gcaacctcca cctcctgggt cactcgag 218

<210> 1356
<211> 203
<212> DNA
<213> Homo sapiens

<400> 1356
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tccattcctc tgatgttctc gag 203

<210> 1357
<211> 151
<212> DNA
<213> Homo sapiens

<400> 1357
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tgacattggc agtagttcca gtacgctcga g 151

<210> 1358
<211> 235
<212> DNA
<213> Homo sapiens

<400> 1358
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gataatctct atttgttgt gctttttgt aactgtttta aataaatcaa ttgtactgt 120
atatttgtac ttttgtgaga tctttttgc tgttttacca ttttaagtct ctgtacttgg 180
ctacacacag attgtatttt tattgttaat gctcttctta tggatagccc tcgag 235

<210> 1359
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<212> DNA
<213> Homo sapiens

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ctaccacgac ttttttacta acattttaca gttgatccag tcccctgtga caacccccct 120
tggtgtgac atgttgaaga caacttcaga agagctggct tgtccccgtg agcacctcga 180
g 181

<210> 1360
<211> 185
<212> DNA
<213> Homo sapiens

<400> 1360
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ttccacttga ttctagactc ttgagtcac agattctggc gctcccgtct tcagtcgctg 120
acttgccctc agaagcctat cttgggaggc cacacaccag tgtacctaaag gttccctgcc 180
tcgag 185

<210> 1361
<211> 278
<212> DNA
<213> Homo sapiens

<400> 1361

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tctgcctttt gaagtctttc ttctctttta ttgggctttt cagtttatcc agggagacgc 180
ttccagccct gtgcagcata ggetgtaatc ctgggagtag ggacaggaaa ggggaatgtg 240
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<210> 1362

<211> 217

<212> DNA

<213> Homo sapiens

<400> 1362

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gtataccaac acgatgaact atagcatatt tgtatttcta cttttttttt tagctattta 120
ctgtacttta tgtataaaac aaagtcactt ttctccaagt tgtatttgcg atttttcccc 180
tatgagaaga tattttgatc tccccaatga actcgag 217

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<210> 1363

<211> 283

<212> DNA

<213> Homo sapiens

<400> 1363

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gaattcgcg cgcgctcgac aatttcactt ttacctgcat acagactgct cgcagaaaagt 60
gattaattct tgatccaggc tcttctattt gcacacaacc tggatcagat tctctctgca 120
gttgctcagg agccacatgc gatttgctga gcatgtgcac tgggtggacag cagcccttcc 180
ctcctgcaga ggctacaccg cctccccaca ggcttggtgc agaccagagc tgtcacaggc 240
acttgtgagt gtggagtgcg cagagagtag aggctatctc gag 283

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<210> 1364

<211> 202

<212> DNA

<213> Homo sapiens

<400> 1364

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tagctttttc ctggaaagcc cgctagaagg ttggggaacg aggggaaagt tctcagaact 120
gttggtctgc ccccaccgcg ctcccgcttc ccccgcaagg tatgtcagca gctctgagac 180
agcagtatca caggccctcg ag 202

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<210> 1365

<211> 276

<212> DNA

<213> Homo sapiens

<400> 1365

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gaattcgcg cgcgctcgac atttttcatg actctgggct gtgtctactg cagctatgga 60
agttgggacc ttttccggga ggcttatgct gccattgaga cttatcacca gacccaccca 120
cccaccttct cctttcgaga aaggatgact cacaagagtc ttgtctacct ctggttcctg 180
tgcagtctct tggcacttgc cctgggtgcc ctaactgtat ggcattgctgt tctcatcagt 240
cgaggtgaga ctacatcga aaggcacaca ctcgag 276

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<210> 1366

<211> 365

<212> DNA

<213> Homo sapiens

<400> 1366

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tgtaactgta tcaaaaataa aaagctgtca catatcttct aaatttttac cttgtaaagt 120

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cacaaaaata gtttttaaag gaaaaagtac agtattcttt taataaaactg gctcacagtc 180
 tggtaggtct acaaccccat agcacacag gtttatagag atgtatatag aattatagtc 240
 cttatttttt tcttttgcgt gaaacctttt ataacagatt aacaatcaac tgcataaata 300
 ttattaatat tttaaaaaga gttaagttgt attttgataa ttcacaaact atcatgcacc 360
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<210> 1367

<211> 291

<212> DNA

<213> Homo sapiens

<400> 1367

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 cccctgacag tagcaatgct gatttgccgg ctgggtacttt tggctgatcc aggacctgta 180
 aacttcattg ttcggctttt tgtggtgatt gtgatgtttg cctggtctat agttgctctc 240
 acagctttcc ttgctgatag ccagcctcca aaccgcaggg ttctcctat a 291

<210> 1368

<211> 242

<212> DNA

<213> Homo sapiens

<400> 1368

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 ggcgcgagaa tggcagaagc tggcccaagg tccagagctg gctgaagatg atgctaattc 180
 cttacataag catattgaag ttgctaattg cccagcctct catTTTgaaa caagacctcg 240
 ag 242

<210> 1369

<211> 212

<212> DNA

<213> Homo sapiens

<400> 1369

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 ggagaaggaa ctgcaagcca ccaagtcttc atttttcagg gtttgtaatc ttcccaaagt 120
 tttcctttga aaataggata atgggtggaa ttttcagagt gattacatac ctcaacattt 180
 ttattaacat acaacaatgg gaaagcctcg ag 212

<210> 1370

<211> 190

<212> DNA

<213> Homo sapiens

<400> 1370

gaattcgcg cgcgctcgac cgaaaaacac agaccgcttt aacctcttta tttctgtccc 60
 ccactgcatg aacatctata caatttttaa aatacttctt cataggatgc tttggccctt 120
 catctattta atcatagcta catacctatt ttttataagt agcagtaac attcaaggg 180
 gcatctcgag 190

<210> 1371

<211> 158

<212> DNA

<213> Homo sapiens

<400> 1371

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 gtggattttg tcgctggacg tctagagatg tgggcatggc agacaaatct gtagctagt 120

gcgggttgga ggaacctgaa aatccacaca cactcgag 158

<210> 1372
<211> 114
<212> DNA
<213> Homo sapiens

<400> 1372
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tccctttttt tttttttgag acagagtctc gccttgtcac ccagggtctt cgag 114

<210> 1373
<211> 193
<212> DNA
<213> Homo sapiens

<400> 1373
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tctgtactac ggaggaacag aatccatgga gatccccacc actgacatcc tggagctgct 120
gtcagctgcc agcctgttcc agctggatgc cctgcagagg cactgcgaga tctgtgtctc 180
ccataccctc gag 193

<210> 1374
<211> 204
<212> DNA
<213> Homo sapiens

<400> 1374
gaattcgagg ccgcgtcgac caaggatcaa gtcacaagg gatctgttag aggtgtcgca 60
gtggatggat taaaccagtt gacagttaca actggtagtg aaggattact caaattctgg 120
aactttaaaa acaaaatttt aatccattct gtgagcctca gttcatctcc aaatatcatg 180
ttgctacata gggacttact cgag 204

<210> 1375
<211> 313
<212> DNA
<213> Homo sapiens

<400> 1375
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ggaagtaata ataccagtat cctttttttt gggcaaacct taatcctcca tggcttttagc 120
attcattgat gttttccaca tgaatcgata cctctatgac gttgccagat cctgtttctt 180
tatatccgct attccttctg catttggttag ttggcattct actgtaagga ggtgctttct 240
attttattca gtgagttgta atccattact tttattattt atttatttta ttttaaatgt 300
ccattttctc gag 313

<210> 1376
<211> 221
<212> DNA
<213> Homo sapiens

<400> 1376
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gtaaagtgag aactccatgg gggagaagaa accctcagga gaggcaggag ctctggcatc 120
aaccatctct ctgccagaa tctccttcca agttgaagct tcaggagttt gggttcttcc 180
agggtacatt attggtccga taagattgga aaacactcga g 221

<210> 1377
<211> 168
<212> DNA

<213> Homo sapiens

<400> 1377

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ttattaatac ctattttatt gattctgttt ctagecctga gtccgctcct aacttgcctat 120
aggatctctg gtaaatacatt tccgtgaata agcagctgtc acctcgag 168

<210> 1378

<211> 179

<212> DNA

<213> Homo sapiens

<400> 1378

gaattcgcg cgcgctcgac tggatatatt ccagctgtag ttgccagtg tttacttaac 60
acatctacat ttttttcttg tctatttttg tccccttgat aggaaaagct ataattttag 120
gcaggactat acgtcgattt gtagccatgc ttccttccct tcccctgtc atcgtcgag 179

<210> 1379

<211> 249

<212> DNA

<213> Homo sapiens

<400> 1379

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atcgttttcc tacttaaat ttgttttagt taagacttct taggacattt gtaaaagcag 120
gttaaattta ataaggttcc tgattttttt ttgtaaccgg agatagtttt tacaagttaa 180
ataacatttc agctaaataa aacatcgcta aataattgat atttgatgaa aatctgctcc 240
tgctcgag 249

<210> 1380

<211> 253

<212> DNA

<213> Homo sapiens

<400> 1380

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catttagtaa aaatgcaaaa tgttctggca ctttaaaaa catctaaact tgttttgtct 180
tagttcttgc aatgccccc atacacaaaa gttattaaat atttctctgt gcattgtcac 240
tacttgtctc gag 253

<210> 1381

<211> 142

<212> DNA

<213> Homo sapiens

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tgccattaag ccacagactt cagtcacatc agtctactgc tttctccta aacacatcat 120
gttctttcac atcctctctg ag 142

<210> 1382

<211> 218

<212> DNA

<213> Homo sapiens

<400> 1382

gaattcgcg cgcgctcgac aagacaccag atgaaagtac aaaaactaaa gaccagatcc 60
tgacttcaag aatcaatgca gtagaaagag acttgttaga gccttctccc gcagaccaac 120
tcgggaatgg ccacaggagg acagaaagtg aaatgtcagc caggatcgct aaaatgtcct 180

tgagtcccag cagccccagg caccaggatc agctcgag

218

<210> 1383

<211> 191

<212> DNA

<213> Homo sapiens

<400> 1383

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cagtgggtatt ggaaattatg cccttgctca gcactgtttc atcaaatcaa tccagtcaga 120
acaaattaat gctgttgcac ggaccaactt gggagtgtta tacctcacia atgaaaacat 180
tgcagctcga g 191

<210> 1384

<211> 231

<212> DNA

<213> Homo sapiens

<400> 1384

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tggatttatt tctcgattcg ctgtcggagg agaatgagac cctgggtggag tttgtattg 120
gaggcctgtg caacctgtgc ccagacaggg ccaacaagga gcacatcctg cagcaggag 180
gtgtcccaact catcatcaac tgcctatcca gcccagtgga ggagactcga g 231

<210> 1385

<211> 154

<212> DNA

<213> Homo sapiens

<400> 1385

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tgatttgcca gacatgcac attggctatt gtttgtttgt ttttgtttt tttgtgttt 120
ttgggttact ttgaaaatga gccagaacct cgag 154

<210> 1386

<211> 213

<212> DNA

<213> Homo sapiens

<400> 1386

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tgggtccgcc gcgaagctga gaggtttgtg aaataccgag aggccaatgg ccttcccatc 180
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<210> 1387

<211> 187

<212> DNA

<213> Homo sapiens

<400> 1387

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ttggaatacc ttttaataata taaaaataat gatagtaaat cttatacttc tgttggccca 180
tctcgag 187

<210> 1388

<211> 177

<212> DNA

<213> Homo sapiens

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tcattgcagca ttgcacttaa aagttcaagc ctggagctgg atttccaagt accattctgt 120
tttctcactt ggggaatgca gttatggctg gacttgcaca gcggtcacc ctcgag 177

<210> 1389
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<212> DNA
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cttcgag 127

<210> 1390
<211> 219
<212> DNA
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tacaaccat caacaatgac aaattttcac agctgcttgt ttattgcttg ttttatatgt 180
ttacatatct caaaatctgt taaaactgca ggtctcgag 219

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<212> DNA
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ttatttctgc tctgtttttg gtttacagtg taataatacc tcatttaaaa aataaaaacc 180
gactcgag 188

<210> 1392
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aaagacttta aagagagaaa atgtctcttc cccacttctc tatatacatg ctgggaaaaa 180
aaagaccgga aggagctcga g 201

<210> 1393
<211> 231
<212> DNA
<213> Homo sapiens

<400> 1393
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cgtggcgccc tgcctcaagc gtggtcttcc acggagatca aggagcagcg gcaactgggac 120
atctcgtcgt ccgagcgcc ggacatcctg cgggacttca ccaactacgg cctggagcac 180
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<210> 1394

<211> 128
 <212> DNA
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 ttctcgag 128

<210> 1395
 <211> 199
 <212> DNA
 <213> Homo sapiens

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<210> 1396
 <211> 148
 <212> DNA
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 aaatataaca gactttgccc ttctcgag 148

<210> 1397
 <211> 252
 <212> DNA
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 atctggagac aaacctgtgt ctggtcagag ctacctacg ctatgaactg cctggctgta 180
 catgacccat ccaatttcac agctgaacca aacttactta ccaccacat tagttttaac 240
 actacactcg ag 252

<210> 1398
 <211> 204
 <212> DNA
 <213> Homo sapiens

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 tcctcaccgt attttttaac ccatttataa aaaaaaatct taaagccaaa attagaaaaa 120
 taactcccta cttttccaaa gtgaattttg tagtttaatg ttatcatgca gcttttgagg 180
 agtcttttac actgggaact cgag 204

<210> 1399
 <211> 393
 <212> DNA
 <213> Homo sapiens

<400> 1399
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aggtcagctc ctgctccttg cagcaaccgc ctccgatcac catcgccctc atctcttcct 180
cctgatcgtc cgcgtccctc agcgaggagg cactccctcc gtgggcccgc cctgagggtc 240
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cttctcccc agccggctcc atcgctccc ggcgtcccgg cacactcatg ccccggcagg 360
cctaggctgg gcggtgtgga acagccgctc gag 393

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<210> 1400

<211> 442

<212> DNA

<213> Homo sapiens

<400> 1400

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gaattcgccg ccgcgtcgac gctggaggca gccgctggag gtagccagca gcatgcacaa 60
aaagctttcc cactcagtc ctctccatg ccttccctgaa gccactttaa atactgcaca 120
tctccttaat ccacaggag actgaagatc tctgggattt caaaaggatg tacagcagtg 180
aagatgcctt gagtaggatg ttacacagag cagccagctc cttatccagc atggcccgcct 240
tcgtcaggct cctggagaat attcatccag tcttccagag gcatgacgct ccgcctcctc 300
ttgacagggt gctggcccag gatcaagatt cccctccagg ccaccgctcc acctggggag 360
gcctcagccg cggccgtagc cgcggtggcc tccataacgg ctgcagtcgt ccccgccctag 420
agcctgggtt tggagcctcg ag 442

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<210> 1401

<211> 282

<212> DNA

<213> Homo sapiens

<400> 1401

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gaattcgccg ccgcgtcgac gaggtatcgg cttattatat gcttcttctc catgggaagt 60
aatatattaa aattcatttt tatctacagt gtggcccttg gtggggaaaa gctccccatt 120
cctgctctga ggagtgaact ccaatactgg ggcttgccca tgggtgctgc cacacccag 180
agagaggcga tgcaagcctg ctcccaggcc tgcctcctcc cctcgacaaa ctggccatct 240
gttctctggg aaaaagagca gccttctctg atcttctctg ag 282

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<210> 1402

<211> 330

<212> DNA

<213> Homo sapiens

<400> 1402

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gaattcgccg ccgcgtcgac gcttctctct tttgtgataa tccagtccca agttccttat 60
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cctgcatgag ataactagca atgtattctg ttctcaagca gtacacgttc tgggcagcag 180
cttctgctat attaaactct gagtcactct gtttcagttt attcaagtca gaaaaaagat 240
gtgtggcctc tttaaaataa ggtacagaat gaccaggtag cacctttgct cctcctgact 300
gaagaaggcg tttgaagcct gcttctcgag 330

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<210> 1403

<211> 266

<212> DNA

<213> Homo sapiens

<400> 1403

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gaattcgccg ccgcgtcgac ctgggtgttt ctcactcttg tttatctcta ctctgcagtc 60
ccccacccc tacttggtatg tttgttggt tgtttattgc atttctttat cctgcctgtt 120
ctcaccctt tttttccgc atgggcgtat caaccttgct gggctgtggt ggctccccgc 180
ctagctctga ccttgccctg gccttctggc tccaccccag ctcaatccct gtctttgttg 240
cttcgttggt ccagagtctc ctcgag 266

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<210> 1404

<211> 256
 <212> DNA
 <213> Homo sapiens

<400> 1404
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 gctgctgtgc gcctcccagc agtggcaggt gttctcagct gagcgcacag aggagtggca 180
 gcgcatggct ggcgtcaaca ccgaccgcct ggagccgctg cgggggggagc ccaaccccg 240
 gcccaacttt ctcgag 256

<210> 1405
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 1405
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 gcagtggaa gcggggcgtc ctccagcttc cgagtccagc cagcctgggc gcggggcgcc 180
 gccccgaga caccgagga gtccgttctt ccctggttac gtggactgtg gagctggtct 240
 cttgtggctc agcgccgtgc ggaggtacct gag 273

<210> 1406
 <211> 271
 <212> DNA
 <213> Homo sapiens

<400> 1406
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 ttgcacaagt tatttctctt gtaaaacact tcttccaatc ctacctaaact ttgttttccc 180
 ctggggggtc ccacagcacc cagtacgcat agctcaaagc actgtcatac cttctgtgat 240
 ggctctctca gtagaccatg agttcctcga g 271

<210> 1407
 <211> 395
 <212> DNA
 <213> Homo sapiens

<400> 1407
 gaattccggc ccgcgtcgac aagtgccaga ttcttttaggg gctccaagag ttcattctgt 60
 ccacacagaa ggacggctgc agcatgaatg gccatttctg tcaccgttcc atcaagggtg 120
 ctgtcactag gccccgcct caacaatggc acagaattgt ccacgagcga tgttgcaaaa 180
 cggtctgatc caggaggtga aaggatcttg cattcgccaa tgaatttgct cacagcttca 240
 cattgctctg gcgtgggggtg gaggttgca ttgtgggac tgtacaaaat agccacctct 300
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 agagcagttt taatgcccag tggcttgca ctcag 395

<210> 1408
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 1408
 gaattcgcgg ccgcgtcgac cgagatgttg ctgctgctgc tactggcgcc actcttcttc 60
 cgcccccg ggcggggcg ggtgcagacc cccaacgcca cctcagaagg ttgccagatc 120
 atacaccgc cctgggaagg gggcatcagg taccggggcc tgactcgga ccaggtgaag 180
 gctatcaact tcttgccagt ggactatgag attgagtatg tgtccgggg ggagcgag 240
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ctcgag

306

<210> 1409

<211> 368

<212> DNA

<213> Homo sapiens

<400> 1409

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gaattcgcgg ccgcgtcgac gccatgcacc gtctaccgct gctgctcctg ctgggcttgc 60
tgctcgcgagg ctccgtcgcc cctgcgcgcc tcgtcccgaa gcgcctttcc caacttggtg 120
gcttctcctg ggataactgt gatgaaggaa aggaccctgc agtgatcaaa agcctcacga 180
tccaacctga cccattgtg gtccctggag atgtagtctg cagccttgag ggcaagacca 240
gcgttccct cactgctcct cagaaggtgg agctcaccgt ggagaaggaa gtggctggct 300
tctgggtcaa gattccttgt gtagaacagc taggcagctg tagctacgag aacatctgtg 360
acctcgag 368
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<210> 1410

<211> 340

<212> DNA

<213> Homo sapiens

<400> 1410

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gaattcgcgg ccgcgtcgac ggcatgggg gacagaggag gtgggacctg gcagaccac 60
agctcccaag ctgggggtccc ggaggcagag tgacaatgca tggctgtgtg ggagccaggc 120
aggcgggtgac gtggcagagc tgccagcagg ggccaagag actgcagcag gttggtgctc 180
acagtggatc tgagggatgg gcgtgcgtgg cagggccttg gccatggccc ctgaccaacc 240
cctgtgcacc aaacaccaca ctgagctcag aatccgggca gagagggaa cactggtaca 300
gtgaggccaa ggcacacgca gccgggcctg cagactcgag 340
```

<210> 1411

<211> 276

<212> DNA

<213> Homo sapiens

<400> 1411

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gaattcgcgg ccgcgtcgac taaaccgtcg atgaattctc ccaccagca gctgaaggga 60
gaaagacgag gaggcaggga gcagacgagg aggtggggag caggcagccc gggcctcaga 120
ggacacatgg ccttcccccg ctggcaccac cacatcaggg ccaccagggg actgctcaca 180
cccagggtt ccgcctcctg gacctggctg tccctggttc tgctgacctc aggagtgaac 240
tgggcttaca gaggtactgg caaggaggga ctcgag 276
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<210> 1412

<211> 281

<212> DNA

<213> Homo sapiens

<400> 1412

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gaattcgcgg ccgcgtcgac ctcattgcca tgatgggtatg gagcatcacc taccacagct 60
ggctgacctt cgtactgctg ctctgggccc gcctcatctg gacagtgcgc agccgccacc 120
aactggccat gctgtgctcg ccttgcaccc tgctgtatgg gatgacgctg tgctgacctc 180
gctacgtgtg ggccatggac ctgcgcctcg agctgccac caccctgggc cccgtcagcc 240
tgccgccagct ggggctggag cacaccgct acccctcga g 281
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<210> 1413

<211> 450

<212> DNA

<213> Homo sapiens

<400> 1413

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gaattcgcgg ccgcgtcgac ctaaaccgtc gattgaattc tagacctgac ccgttccgct 60
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```

gtgtacaccc tgaacctggc actggcggac ctgatgtatg cctgttcaact acccctactt 120
atctataact acgccagagg ggaccactgg cccttcggag acctcgctg ccgctttgta 180
cgcttcctct tctatgcaa tctacatggc agcatcctgt tctcactg cattagcttc 240
cagcgctacc tgggcactct ccacccctg gcttctctgg acaagcgtgg aggtcgccgt 300
gctgcttggg tagtgtgtgg agtcgtgtgg ctggctgtga cagcccagtg cctgcccacg 360
gcagtctttg ctgccacagg cctccagcgc aaccgcactg tgtgtctacga cctgagccca 420
cccatcctgt ctactcgcta cccactcgag
450

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<210> 1414

<211> 345

<212> DNA

<213> Homo sapiens

<400> 1414

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gaattcgcgg ccgcgtcgac cgattgaatt ctagacctgc ctgcacccc caatctcaac 60
cccaaccccc tcatcaacgt gcgcgaccgg ctcttcacag cgctgttctt caagatgggt 120
gtcacctatt ccgggctctt ccggcccgcc ttccgcctgt tcttcgagtt ctctgtgtg 180
ctcaaggccc tgtttgtgct ctctgtcctg gctacatcc acatcgtctt ctcccgtctg 240
cccatcaact gcctggagca tttctgtgac agcggcggcc gcgggagctt cccgggcctg 300
gcggtggaac caggcagcaa cctggacatg caagatgagc tcgag
345

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<210> 1415

<211> 355

<212> DNA

<213> Homo sapiens

<400> 1415

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gaattcgcgg ccgcgtcgac acttttttct ctctctgtat cctgttcaag aaatagtgtg 60
ctactccaag gtcattgcaga tgttttttct taaatgcttt attgtcttgt cttttatttt 120
ttatatctat ggtctatttg gtatggcttc gtgtgtgtgg tgtgaggtag ggattgagat 180
tctttttttt ccattgggat atctgattga cccagcatca ttttctaaaa gatgcctttc 240
ctcattgcac tgcggcgctt cctgtgtgct tttgacaggg atgacaggga tgaggatgat 300
aaagaatagg catagcgtgt ctctctcttg tgagacacag ggactccaac tcgag
355

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<210> 1416

<211> 412

<212> DNA

<213> Homo sapiens

<400> 1416

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gaattcgcgg ccgcgtcgac aactcgggtg acaactgagg gaaccaaacc agagacgcgc 60
tgaacagaga gaatcaggct caaagcaagt ggaagtgggc agagattcca ccaggactgg 120
tgcaaggcgc agagccagcc agatttgaga agaaggcaaa aagatgctgg ggagcagagc 180
tgtaattgct ctgttgctgc tgcctgggac agctcagggc agagctgtgc ctgggggcag 240
cagccctgcc tggactcagt gccagcagct ttcacagaag ctctgcacac tggcctggag 300
tgcacatcca ctagtgggac acatggatct aagagaagag ggagatgaag agactacaaa 360
tgatgttccc catatccagt gtggagatgg ctgtgacccc ccagaactcg ag
412

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<210> 1417

<211> 110

<212> DNA

<213> Homo sapiens

<400> 1417

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gaattcggcc aaagaggcca ttcaaaaagg ggttaagagt taaaatgggt tgtgcagctg 60
taacactgga gctattttat ctcttaactga cagttaagga gagtctcgag
110

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<210> 1418

<211> 105

<212> DNA

<213> Homo sapiens

<400> 1418

gaattcggcc aaagaggcca ttcaaaaaaa cgtgagaagt atttttgtac cctgtgtaac 60
aaaatattta tgcatacataa aggatttttc atatgcgtac tcgag 105

<210> 1419

<211> 103

<212> DNA

<213> Homo sapiens

<400> 1419

gaattcggcc aaagaggcca ttcaaaagacc tgccctgaga ggtctcgagg caggctctaga 60
attcaatcgc ctccagaaggc caaagaggcc attcgccttc gag 103

<210> 1420

<211> 105

<212> DNA

<213> Homo sapiens

<400> 1420

gaattcggcc aaagaggcca ttcaaaaattt gaactgtttat aaagaaagtt gctttatttc 60
tttaaacatc ttcaaaaagat gatcctttct tgtcacattc tcgag 105

<210> 1421

<211> 111

<212> DNA

<213> Homo sapiens

<400> 1421

gaattcggcc aaagaggcca ttcaaaaatg tatggaaatt caactaatat ttgggtgctgt 60
tattctattc ttcaaatcca ctgcataatg tttttagtcc cagtactcga g 111

<210> 1422

<211> 125

<212> DNA

<213> Homo sapiens

<400> 1422

gaattcggcc aaagaggcca ttcaaaaaaa agattcagca aattgccttaa aatcgaggta 60
actagcaagc atatatcaag ggatacatga ctcggtcttc gtctagtctc aaagccgtac 120
tcgag 125

<210> 1423

<211> 103

<212> DNA

<213> Homo sapiens

<400> 1423

gaattcggcc aaagaggcca ttcaaaaaat ttgaattcag aagataagca ggtaaaaatt 60
atcacaagat tgtgtggtaa tgagagtga ggtgctctc gag 103

<210> 1424

<211> 126

<212> DNA

<213> Homo sapiens

<400> 1424

gaattcggcc aaagaggcca ttcaaaaatg aaatgcattt ctagtcttgaa cctaattgcc 60
acttggtctg atattatttt ccttagaatt gttggaatag aggagagagg aaggagagaa 120

ctcgag 126

<210> 1425
 <211> 141
 <212> DNA
 <213> Homo sapiens

<400> 1425
 gaattcggcc aaagaggcca ttcaaagatt gtaaatagct tacaatttac aaataataaa 60
 tataacaatgc tgtttatcat aaaaatccac ttagccaatt ggttcttaca aaatgttttt 120
 gttaatatatt gcgaactcga g 141

<210> 1426
 <211> 133
 <212> DNA
 <213> Homo sapiens

<400> 1426
 gaattcggcc aaagaggcca ttcaaaaaca ggaatttgag cacaagatga gaaaatgtgt 60
 tggcccccta gcgctggtgg gctggatggc ggccacagca cacgggggca cctcattccg 120
 cagggagctc gag 133

<210> 1427
 <211> 106
 <212> DNA
 <213> Homo sapiens

<400> 1427
 gaattcggcc aaagaggcca ttcaaagtca gatgaaaac tttttattct caaaattgtt 60
 tttcagttcg gtaaatattt tgagtgtgta tgcacgcggt ctcgag 106

<210> 1428
 <211> 109
 <212> DNA
 <213> Homo sapiens

<400> 1428
 gaattcggcc aaagaggcca ttcaaaaata ttggaatata cttttcttta aaaaaaggaa 60
 cagtttagttc tcattctagaa tgaaagtcc atatatgcat tggctcgag 109

<210> 1429
 <211> 190
 <212> DNA
 <213> Homo sapiens

<400> 1429
 gaattcggcc aaagaggcca ttcaataaaa acacagtaag tactcagaaa ctacttgaag 60
 agtgcagtta tcagtagaga tgatcgaaac atttgttttt ctagggaata tttttgcctt 120
 tttttttcca gaatcctctg gttataatgt gtcactgct aggtcaccag tcataaaaca 180
 taaactcgag 190

<210> 1430
 <211> 111
 <212> DNA
 <213> Homo sapiens

<400> 1430
 gaattcggcc aaagaggcca ttcaaaaata atgatatttg gcctctactt tgtcttagct 60
 gttaaaactgt ttttagtatt ttgtttaa attgcaaaag ggaaactcga g 111

<210> 1431
<211> 103
<212> DNA
<213> Homo sapiens

<400> 1431
gaattcggcc aaagaggcca ttcaaaaaag agaaggcttc ttccttattg atatcatggt 60
atgcattaat tccatttggt actattgtgc acaggccctc gag 103

<210> 1432
<211> 178
<212> DNA
<213> Homo sapiens

<400> 1432
gaattcggcc aaagaggcca ttcaaaaaag aaagcagctg ggactaatga actttacatt 60
agccatattc cattatttca gcttaagtca aatgtcggtc ctcatgaggc aactggcttt 120
gacaggagct acgctaatta ccacttacca acctttaatt tctgggcaaa acctcgag 178

<210> 1433
<211> 115
<212> DNA
<213> Homo sapiens

<400> 1433
gaattcggcc aaagaggcca ttcaaagtat ggggtttctc actctgcttt tcttcctgtg 60
gggcttcggg gtgctgtact gttgtccctt catttgcagc aggtatcacc tcgag 115

<210> 1434
<211> 102
<212> DNA
<213> Homo sapiens

<400> 1434
gaattcggcc aaagaggcca ttcaaaaatg cagtatttat tctttgtagg cataatgtgt 60
ttgtcactga caagcattca tgttcatacc actagtctcg ag 102

<210> 1435
<211> 125
<212> DNA
<213> Homo sapiens

<400> 1435
gaattcggcc aaagaggcca ttcaaaaaaa atagaaagta aatagttcta agaattattct 60
ggcataaatt atttttattt agccaataaa atagcctcca aatgtatata tcagttgccc 120
tcgag 125

<210> 1436
<211> 104
<212> DNA
<213> Homo sapiens

<400> 1436
gaattcggcc aaagaggcca ttcaaaaagt attgcttaat agaaagtgag tagaacttat 60
attcgatcat gttattgagc acatacttac gggcagttct cgag 104

<210> 1437
<211> 125
<212> DNA
<213> Homo sapiens

<400> 1437

gaattcggcc aaagaggcca ttcaaaagga ggtcaccaag aaacatcagt atgaaattag 60
gaattgttgg ccacctgtat tatctggggg gatcagtcct tgcattatca tggaaacacc 120
tcgag 125

<210> 1438

<211> 206

<212> DNA

<213> Homo sapiens

<400> 1438

gaattcggcc aaagaggcca ttcaaaaaaa gcagaatgtt ttcttcagaa ggccaaagag 60
gccattcaaa aaaagcagaa tgttttcctc agaaggccaa agaggccatt caaaaaagca 120
gaatgttttc ctcaagaaggc caaagaggcc attcaaaaaa gcagaatgtt ttcttcagaa 180
ggccaaagag gccattcaaa ctcgag 206

<210> 1439

<211> 104

<212> DNA

<213> Homo sapiens

<400> 1439

gaattcggcc aaagaggcca ttcaaaaaga taaaattaaa aagccagaca tactttctat 60
caagctgcgt aaagagaaac atgaagtaca aatggatcct cgag 104

<210> 1440

<211> 120

<212> DNA

<213> Homo sapiens

<400> 1440

gaattcggcc aaagaggcca ttcaaacctc cagaaggcca aagaggccat tcaaacctc 60
agaaggccaa agaggccatt caaacctca gaaggccaaa gaggccattc aaacctcgag 120

<210> 1441

<211> 119

<212> DNA

<213> Homo sapiens

<400> 1441

gaattcggcc aaagaggcca ttcaaaaaca tattttaagc caagtttttag gtgtattttt 60
tgaatcttgg ttataaaccc aattttaaag ggcatgtat gccagcgttg ttactcgag 119

<210> 1442

<211> 123

<212> DNA

<213> Homo sapiens

<400> 1442

gaattcggcc aaagaggcca ttcaaaagta ttttgaactt agtcacataa aggccataaa 60
taatctgtaa acatgtttta taaaaaaaaa atcactaaag ctgatcccaa agagccactc 120
gag 123

<210> 1443

<211> 115

<212> DNA

<213> Homo sapiens

<400> 1443

gaattcggcc aaagaggcca ttcaaagatt aataatgagc ttttgtttta cgtttttgag 60

cctgcttccct gcatgcataa aattaatact tcagccctct tccaaagaac tcgag 115

<210> 1444

<211> 128

<212> DNA

<213> Homo sapiens

<400> 1444

gaattcggcc aaagaggcca ttcaaaccat tcaaacctca gaaggccaaa gaggccattc 60
aaaccattca aacctcagaa ggccaaagag gccattcaaa aaaaagttaa acttgctgct 120
gactcgag 128

<210> 1445

<211> 110

<212> DNA

<213> Homo sapiens

<400> 1445

gaattcggcc aaagaggcca ttcaaacaaa ttgattgta cttataagaa caatacattg 60
tttttataat gttaatatcc tgttttgcc tttataattcc cacactcgag 110

<210> 1446

<211> 118

<212> DNA

<213> Homo sapiens

<400> 1446

gaattcggcc aaagaggcca ttcaaaagac ctgcattcta gctgttgtag caactgaccg 60
aacgtctagc accacactct cactaagaat ttcactgatg aggcgggtggt ttctcgag 118

<210> 1447

<211> 121

<212> DNA

<213> Homo sapiens

<400> 1447

gaattcggcc aaagaggcca ttcaaaaagg agttgtgtgt gtgttttgca tacaacttta 60
caatttcata gttgaaagct gttacaaaat gaaagttttg tgtatggtag gaattctcga 120
g 121

<210> 1448

<211> 152

<212> DNA

<213> Homo sapiens

<400> 1448

gaattcggcc aaagaggcca ttcaaaaatt aactgaggca ggtgatcggt tttttaagct 60
gattagggaa acagtatata agaacttact taactcataa taaaactaaa attcaacagg 120
ggagagttat gatTTTTTg ctcgctctcg ag 152

<210> 1449

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1449

gaattcggcc aaagaggcca ttcaaaaaaa atgaggattg ccttccctgt atgcgctttt 60
taccttgact acctgaattg caagggattt ttatatattc atatgttaca aagtcagcaa 120
cgcctcgag 129

<210> 1450
<211> 133
<212> DNA
<213> Homo sapiens

<400> 1450
gaattcggcc aaagaggcca ttcaaaaaag agtaggctat aaggggaagat tgtcaatatt 60
ttgtggtaag aaaagctaca gtcatTTTTT ctttgactt tggatgctga aatttttccc 120
atggatcctc gag 133

<210> 1451
<211> 101
<212> DNA
<213> Homo sapiens

<400> 1451
gaattcggcc aaagaggcca ttcaaaaatt acgcattttc tttatcccca gaatagacat 60
acataaaaaat aatgcatact aagttcctgg caattctcga g 101

<210> 1452
<211> 142
<212> DNA
<213> Homo sapiens

<400> 1452
gaattcggcc aaagaggcca ttcaaaagta taaaacaagc aaagaaggga gtgtaatggg 60
agttacagta tcccggttg caatgttgtc tcaactgcaa gctctgtcgc aggcctgcaa 120
ttattctgaa gggcgctcg ag 142

<210> 1453
<211> 102
<212> DNA
<213> Homo sapiens

<400> 1453
gaattcggcc aaagaggcca ttcaaacata aacataagca taaacataag aaacacaaaa 60
gaaaagaggt tattgatgct tctgataaag aggggtactcg ag 102

<210> 1454
<211> 111
<212> DNA
<213> Homo sapiens

<400> 1454
gaattcggcc aaagaggcca ttcaaacata atgtcagaat taatttaaac aaattataat 60
taatgtaata tgatttttagg aaagatgaaa cactttatga gagccctcga g 111

<210> 1455
<211> 132
<212> DNA
<213> Homo sapiens

<400> 1455
gaattcggcc aaagaggcca ttcaaaaata aaattattga acagcttagc cctcaagctg 60
ccaccagcag agacatcaac aggaaactag attctgtaaa acgacagaag tataataagg 120
aacatcctcg ag 132

<210> 1456
<211> 136
<212> DNA

<213> Homo sapiens

<400> 1456

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gaattcggcc aaagaggcca ttcaaaaaat aaagtgactg aactgtcaga tcaacaagat 60
caagctatcg aaacttctat ttggaattct aaagaccatt tacaagtaga aaatgatgct 120
taccctgatt ctcgag 136
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<210> 1457

<211> 104

<212> DNA

<213> Homo sapiens

<400> 1457

```
gaattcggcc aaagaggcca ttcaaaaaata tgatcgaaga aataaagacc ccagcctcta 60
cccccgctgc tggaactcct caggcttcac ccatgggtcct cgag 104
```

<210> 1458

<211> 111

<212> DNA

<213> Homo sapiens

<400> 1458

```
gaattcggcc aaagaggcca ttcaaaaatc gaaaaggaaa atactttaac gttgaaagag 60
ttgggtcagta cttgaaagat gaagatgatg atcttggtgc accccctcga g 111
```

<210> 1459

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1459

```
gaattcggcc aaagaggcca ttcaaaaaag gaagaaaaaa acagatttac accacagata 60
gtgatgagat ttcacatatt gttaatcgta ttgctcctca gccaaaggat gaaaaaccaa 120
caactcgag 129
```

<210> 1460

<211> 111

<212> DNA

<213> Homo sapiens

<400> 1460

```
gaattcggcc aaagaggcca ttcaaaaaaa aagaaagtta tttctttgtc ttaaagaatt 60
tttaaaaaat tagtcatgag acttattcat ctttcaggga aacttctcga g 111
```

<210> 1461

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1461

```
gaattcggcc aaagaggcca ttcaaaaacta aaataaaaca tatgtgtcta tggttttcaa 60
ttggagtagt ctttcttact ttcccccttc ccctctttgg ttctcctaac cagcttagag 120
gacccaaaga gagcttaggg atagacacca gaatactctg tggagggtctc gag 173
```

<210> 1462

<211> 141

<212> DNA

<213> Homo sapiens

<400> 1462

gaattcggcc aaagaggcca ttcaaaaatc aagagtttga gagcgtccgg ctgaatgaga 60
cactttcatc attttctgat gacaataaga ttacaattag actggggaga gcacttaaaa 120
aaggagaata cagagctcga g 141

<210> 1463
<211> 123
<212> DNA
<213> Homo sapiens

<400> 1463
gaattcggcc aaagaggcca ttctgaggcg gttggtgggt caatggtgaa gatacagtct 60
tttcttaaat cccttctctt gctgaaactcc tctggtggaa ttgtccatgg cagggtcactc 120
gag 123

<210> 1464
<211> 105
<212> DNA
<213> Homo sapiens

<400> 1464
gaattcggcc aaagaggcca ttcaaatatg tatcggtatg ttttaatggt atatattgga 60
ttgtattcga tgttacaaaa ccaatattct atggagtcctc tcgag 105

<210> 1465
<211> 117
<212> DNA
<213> Homo sapiens

<400> 1465
gaattcggcc aaagaggcca ttcaagtat atcacacatt tagaagtaca aattaatcca 60
ttttgcttta tgaattcatt ttacattat ataactcttc ttacattctg tctcgag 117

<210> 1466
<211> 102
<212> DNA
<213> Homo sapiens

<400> 1466
gaattcggcc aaagaggcca ttcaagaat tgaaacatct taatttcaaa ttcaaataga 60
acatttaaaa tgatttcatt attattaccc atactctctg ag 102

<210> 1467
<211> 118
<212> DNA
<213> Homo sapiens

<400> 1467
gaattcggcc aaagaggcca ttcaaaaaaa ttttgcacac tacttatggg taatatcttt 60
ttcatatatt atttatcaaa gtatgaagtt gagtatcttg cttgtaccac tcctcgag 118

<210> 1468
<211> 107
<212> DNA
<213> Homo sapiens

<400> 1468
gaattcggcc aaagaggcca ttcaaaaatc ataaatatag aaacagtagt aatacagctg 60
acattaccat ttaattttat attatgaaag caaatcatct gctcgag 107

<210> 1469

<211> 433
 <212> DNA
 <213> Homo sapiens

<400> 1469
 gaattcgcg cgcgctcgac ccaaccccag gttatcttcc cctttgtctt ccagccccc 60
 agaaacagct acgactcaac ctacccaatc atttcacatc cagattgcca ctgtctctag 120
 ttcagggtctc ttgggactgg cactcagaaa tctcataata aatcctcttg aggcttctca 180
 tacactcgtc ttcttccaat cttctttccc tcaaaatctc atattttggg tccacttcac 240
 ccaccgtcat tctccatata actcccagga gttaggcaaa aagccccctc cgttcttccg 300
 tatgttaaac ttagaatcac tctgttccct gctctgctt tctatctttt gtttccctcc 360
 atttactagt agcttaacac tttctaacag tgttcttatt attgatacgt atctatctct 420
 tccaaagctc gag 433

<210> 1470
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 1470
 gaattcgcg cgcgctcgac cctgtgtgtt ttctgttact tgctagccac aaagtccctg 60
 caaacagaaa ctttagatcc actgctctct ttactctctc tctctatagc gctgtgaagc 120
 aaatgtcctg catcatcccc attgcacaca cgctcgag 158

<210> 1471
 <211> 270
 <212> DNA
 <213> Homo sapiens

<400> 1471
 gaattcgcg cgcgctcgac ctaaaattct gatttgcatt gtgggtttta ggggttcagat 60
 tagcaagtgg gattgttttt tagcacttaa atccctcact tcatgctctg tttgcacaaa 120
 tctaaagagg cactgggtatg tctaaagagg cactgggtatt gtttattacc tctagtgtga 180
 tttgactttg ggattgtaga gaaaaataat ttctttttgt gggatggggg aagaatccca 240
 tgccagtatt catcatatgg gaccctcgag 270

<210> 1472
 <211> 359
 <212> DNA
 <213> Homo sapiens

<400> 1472
 gaattcgcg cgcgctcgac ctaattatgt aattatgtaa gctagctttt catgtttatg 60
 tatgtatggt gtcccttctt gttatcttcc tccctcttgg tttttgaatt agtggttaaat 120
 agaatactgt ctgattcttt aaaatatctt catttccatc atgggtataa caaatgtgct 180
 gcatgcccaa actgacaaca gcaatcactg agggaaacagg ttttgaatct ttcttttgtg 240
 ttatgaagtt tatcgtctct acttgcttga gatttttgtt attttggggg tttgggggtg 300
 ctttttgttt tgtttttgcc aaatgtaaca tgaaagcaga tgctgcagct tctctcgag 359

<210> 1473
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 1473
 gaattcgcg cgcgctcgac gaaatcatgg actaccagag cagacttaag aatgctgggtg 60
 aagagtgcaa gagcctcagg ggccagcttg aggagcaagg ccggcagctg caggctgctg 120
 aggaagctgt ggagaagctg aaggccaccc aagcagacat gggagagaag ctgagctgca 180
 ctagcaacca tcttgccagag tgccaggcgg ccctgctgag gaaggacaag gaggggggtg 240
 cctgctgtga agacctagaa aggacccaga aggaactcga aaaagccaca acaaaaaatcc 300

aagagtatta caacaaactc tgccaggagg tgacaaatcg tgagaggaat gaccagaaga 360
 tgcttgctga cctggatgac ctcaacagaa ccaagaagta tctcgag 407

<210> 1474
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400> 1474
 gaattcgagg ccgcgtcgac attgaattct catgcctcac ctctcctcag tagctgggat 60
 tacaggcgtg caccaccaca ccctgctaatt ttttgtattt ttttagtaga gacggagttt 120
 tgccgtgttg gccaggctgg tctcaaaactc ctggcatcaa gtaatctgcc tgcctcagct 180
 tcccaaaagtg ctgggattac aggcataagc caccgtgccc ggccattttt cggcattttt 240
 atatcctgtt gtatttaggc tctttttgta gacctcctat ttctagatct tttaaaaatc 300
 caatcccaga gtttggtgtc tttttttctc tctctcattt aataggttga attttctttt 360
 cctagtttga aatgtacaca tttcattgtg tttcagttaa aattttggtc attatcccaa 420
 accaatctat gcttacattt atacgtttgg tttcttttat tgttgttata agtatcttta 480
 tatcactcac tgccttcaac ataaatacct tgacactcga g 521

<210> 1475
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 1475
 gaattcgagg ccgcgtcgac agaagttgct ggtcttgaca tgaatatcag ccaattttcta 60
 aaaagccttg gccttgaaca ccttcgggat atctttgaaa cagaacagat tacactagat 120
 gtgttggttg atatgggtca tgaagagttg aaagaaatag gcatcaatgc atatgggcac 180
 cccacacaaat taatcaaagg agtagaaaga ctcttaggtg gacaacaagg caccaatcct 240
 tatttgactt ttcactgtgt taatcagggg acgattttgc tggatcttgc tccagaagat 300
 aaagaatatc agtcagtggg agaagagatg caaagtacta ttcgagaaca cagagatggg 360
 ggtaatgctg gcggtctcga g 381

<210> 1476
 <211> 118
 <212> DNA
 <213> Homo sapiens

<400> 1476
 gaattcgagg ccgcgtcgac cttaggctcag gttctgtcaa gttaccaaca gaagctactg 60
 attgtaaaaat ttcaattaca ctcttatcct gtcaagtaaa atggtaggca gtctcgag 118

<210> 1477
 <211> 179
 <212> DNA
 <213> Homo sapiens

<400> 1477
 gaattcgagg ccgcgtcgac tggaatcata ggatgtggag gatgggtactc atacactgtg 60
 tctgcctctg ggtggggggc acaggactgg ttcagtctctg ctctggatgg agtcagtcag 120
 ttgccagaat gcagaagtcg gaaaaacatc tcaaaagacc agtcttgcca gagctcgag 179

<210> 1478
 <211> 279
 <212> DNA
 <213> Homo sapiens

<400> 1478
 gaattcgagg ccgcgtcgac taggagtgaa tatgtgggtc ccttttgta tgcacaatag 60
 aattgttctc ccaatttttt ttttttttgc ctgtcacttc atactctatt ctatttactt 120

```

ccctttctag ttagtaaggc atgttgggtg aactccctt ttttggcaaa aaggcattta 180
cctttctctt cccattacc actaccagca caccaataca gattttcccc ctgcctcagg 240
gaggccatga ctggagggag gggtaaggag cctctcgag 279

```

```

<210> 1479
<211> 144
<212> DNA
<213> Homo sapiens

```

```

<400> 1479
gaattcgcg cgcgctcgac gtcttgggtc agattataaa aattacaatt gattacataa 60
aacttaatta accttttctt tctctctcat agatactctt catatcaatt catgtatttc 120
caagtactat accattact cgag 144

```

```

<210> 1480
<211> 209
<212> DNA
<213> Homo sapiens

```

```

<400> 1480
gaattcgcg cgcgctcgac gccagcatgg tcaacttctg gcgagagctc tcttctctgt 60
atgtaaatgc ccacttctc atgtcttcac aggaaggaaa ccaacaaata ggtctctctc 120
tctctctctc tttctctctc ctctctctc ctcttctctc ctctctcccc accatctctc 180
tcttccccct cctccccca gccctcgag 209

```

```

<210> 1481
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<400> 1481
gaattcgccc aaagaggcct aagtgaactt agtagaagct attgagaaaa gactgatcag 60
ccctgaactg gcaaatatga tccaaataga tagttcagag ttcagcgatc acagggctca 120
gattgaaaag caagaaggga ttgaagtgtg tgcattacaa aatgaatttc taggaaagga 180
tatgttaatt gcttgtaatc agactgctga aatgagttgt aataaagtag aagagagtga 240
gagattattt caagttgaaa atcagtctgc acaagaaaag gttaaagtga gagtttctga 300
tggggagcag gcaaaaaaga gcagggaat ttccttaaag gaatttgggt gcaaggatca 360
acgtaagcca agaattgtct cagatgctaa agaatttctc agtatcataa atcctcataa 420
tcttaaaagt aaatccttgg gccaaagtgc attgacacac ccttactctg aatgtgattt 480
taaacttaaa gaagtggcta gaaataacat gggaaatgat acaaacctcg ag 532

```

```

<210> 1482
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<400> 1482
gaattcgccc aaagaggcct agatcagtag cattaacaaa agttgcttta aaagccatta 60
tgtaaaacaa gacttgaaaa tgagtggagg aatttttagc acactgtctg agcagcagtg 120
ggaaccatct tcgtttcccc tttgaactcc cagtgggatg cctaccctg cgcccttagg 180
acccggactg accgtgtaca aaactttacg tgccaaaatt ctgagtgaat ttagctttct 240
ccctcttttt gatgctgtaa tttttgttca tcatgttttg ctgtgatgtt acataggtag 300
atgtgtatgt agttttaatg tcacctataa caaatgtgt ttggtagcag attgtccaga 360
aagcatttta aatgaagagg tataaacctt taagggccaa aattctgtat attagattac 420
tcttaaacga aaaaccagct gccgctttta tgtacacata ttacatacga gtaggcagca 480
gactttaaaa ataaaaaaaa cctaggcagc ttgatgttgc aaaatgctgt ataaagctga 540
aacctgttca ttcagtgcga ttgtagttag catgaagctc tcgag 585

```

```

<210> 1483
<211> 418

```

<212> DNA

<213> Homo sapiens

<400> 1483

```

gaattcggcc aaagaggcct aattttttttt gaggatttgt tttacttggg tgtcacattc 60
ataatttttta atcctttaag gagaaaaatg tgcttattaa atttttgggc tctgaatgct 120
accaagtctt agtcatacag aacaatatgc tgcaactgtt tacaattcct aaaactgtaa 180
actcctcaag gacttggagg ctaaacatga agaataataa attaagttga caatcactgt 240
ctcctgcata acactgactt cacttctctt gagaaatgtg catctgctaa tccatattta 300
ttacttttta ggggtgggtg aaccataaaa taagatactg ttctttgaat gccttttagct 360
ggtgttattt accagtaatg cttggagaaa gaatccaaaa ttaccccccac tactcgag 418

```

<210> 1484

<211> 572

<212> DNA

<213> Homo sapiens

<400> 1484

```

gaattcggcc aaagaggcct aggttctatc tttttgaatg catctctgta ggctttgtga 60
tttagggaag gatctgttaa actttcaagt tcagagaaaa gtttcttaaa cttcccaggg 120
attttctccc aggtctgcga cagtcgactg acagaagcag tgttgagacc catcacaatg 180
gcaaagaaaag aattcagggtt tctctgggct ttgcagtga cgcgaatttt gatgaatttt 240
ttcaccagct gcactcgctt gccagctgg ctgcagagca gaatctccgt ggccacccaa 300
agctggacct cattgcatct ctggagcaga aggtctgagat ttgcagtgtg ttcccactt 360
ccctgtctgc tgaacgtgaa gtagatcagc tcttgcctct gaattgaatt gaatagactc 420
caatcaaaaat tcattaattc cagagcaaga tcccaagtgt tcattcccaa aatcctcatc 480
gacctttgct gtgattcttc attttctgca aatgggttca aagtgtccgc caggtctttc 540
cggtagacat atattcgacc agatgcctcg ag 572

```

<210> 1485

<211> 451

<212> DNA

<213> Homo sapiens

<400> 1485

```

gaattcggcc aaagaggcct acttcttccc ggcccacgga aaaggcgggc gtagtgctct 60
tgcaccgctc cccaggggccc cccatggagc ccttctgccc ttgggtcca gtgtggcccc 120
tggccctcgc tgagcctgtt ttgccatatt tcccttgag gctcgatct ccgcggtcac 180
ccttctcccc tttcaagata gtgatgttga tctggggcac ggcggtcgcc gggtacatgg 240
aggtaccagg gtcacagcag cgcaagcacc gggaagcagg gagccctgg tctgactgg 300
gcctgtattt ttcatgttgt tcttcagccc tctcggcatg gtccggaggg gacggcagct 360
cctcagtcce ctcccactcc tgctgttccc cctggacatg gggcacgcga ctcaggacca 420
ggccagaggg aaaggcaagg agcagggtcg g 451

```

<210> 1486

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (69)

<400> 1486

```

gaattcggcc aaagaggcct aagcaaatgc aaaaactctt tgagagggtg ggaggggtgg 60
aaggaaacna ccatgtcatt tcagaagtta gtttgatat attataataa tcttataatt 120
gttctcagaa tcccttaaca gttgtattta acagaaattg tatattgtaa tttaaaaata 180
ttatataact gtatttgaaa taagaattca gacatctgag gttttatttc atttttcaat 240
agcacatatg gaattttgca aagattttaat ctgccaaagg ccgactaaga gacgttgtaa 300
agtatgtatt attcacattt aatagactta cagggataag gcctgtgggg ggtaatcccc 360

```

```

gctttttgtg tttttttgtt ttgtttgttt gtttgttttt ggggggtttt cttgccttgg 420
ttgtctggca aggactttgt acatttggga gtttttatga gaaacttaaa tgttatctgg 480
gcttataatc ggctcttgct ttctccttta attgtaaagt aaaagctata aagcagtatt 540
tttcttgaca aatggcatal gttttccact tctttgcatt cgtcctcgag 590

```

<210> 1487

<211> 596

<212> DNA

<213> Homo sapiens

<400> 1487

```

gaattcggcc aaagaggcct acttttgtct gcctcattct aaaatttaca cagtagacca 60
tttgtcatcc atgctgtccc acaaatagtt ttttgtttac gatttatgac aggtttatgt 120
tacttctatt tgaatttcta tttttcccat gtgggtttta tgtttaatat taggggagta 180
gagccagtta acatttaggg agttatctgt ttctatcttg aggtggccaa tatggggatg 240
tggaattttt atacaagtta taagtgtttg gcatagtact tttggtacat tgtggcttca 300
aaagggccag tgtaaaactg cttccatgtc taagcaaaga aaactgccta catactggtt 360
tgtcctggcg gggaataaaa gggatcattg gttccagtca caggtgtagt aattgtgggt 420
actttaaggt ttggagcact tacaaggctg tggtagaatc ataccocatg gataccacat 480
attaaaccat gtatatctgt ggaatactca atgtgtacac ctttgactac agctgcagaa 540
gtgttccttt agacaaagtt gtgaccattt ttactctgga taagggtttt ctcgag 596

```

<210> 1488

<211> 503

<212> DNA

<213> Homo sapiens

<400> 1488

```

gaattcggcc aaagaggcct aagcctttct ttctgcagct aagggcagag gctgtgccta 60
gggctatacc accactagca tctgtatttg agactgtttc cttagatggg taagagggtg 120
aaaacaaact tagtatcagg ggtccatgaa gcccatggca tcatttttga aaatatttct 180
agttttgtag ccaaagcaat tgggttttagt aaaatgagac ttcttcagga gtcaactcct 240
tactgtggac ccattgctta gtgggaatgg aagtatatgt atctatcttg tgtattaact 300
tctgacttat ttatacaaga gcagctatag gagtttacia aagaacttta agttatttaag 360
ttactataaa tttggggatc cttagagtgt cttaaatatg gcaagataca gctcatttag 420
aataaaatct cacatccatt attttaaagg gaatgattgg ggggaaaaac tgggtgaagaa 480
gaaatataaa aaggaccctc gag 503

```

<210> 1489

<211> 270

<212> DNA

<213> Homo sapiens

<400> 1489

```

gaattcggcc ttcattggcct acaaccccaa atattaagcc aagattaaaa aaccacacag 60
ataagaatgg catattttta tctaaatgac ttaattttgt tctcttcttt aatgttatgc 120
tgtgggcaca attcaagcaa cttgacagct attttctctc agcataatga agaccttggg 180
ctactcactg ctcaactcca gtgctgctgc tgggaaattg gtagtcgttt atatcactct 240
gtccttctta cagttctagt tccactcgag 270

```

<210> 1490

<211> 352

<212> DNA

<213> Homo sapiens

<400> 1490

```

gaattcggcc aaagaggcct acgcctcccc tccgcaccca cccccctgcg ccagagcttc 60
tcccggacac cgcagcctcc tgccgaagaa cccccgcacc ctcttacctt cagccagctt 120
cctcgggtgg gcctcagccc agacagccca gcaggtgaca ggaatagtgt gggcagtgag 180
ggcagcgtgg gcagcatccg cagtgcctgc agcgggcaga gctctgaggg cactaatggc 240

```

catggccctg gcctcctgat tgagaacgcc cagccactgc cctctgctgg agaggaccag 300
gtgctgccag gactccaccc ccggtccctg gcagacaacc cctccactcg ag 352

<210> 1491
<211> 287
<212> DNA
<213> Homo sapiens

<400> 1491
gaattcggcc aaagaggcct agaagctctc tgtttggaag tggagacaaa gaccaaatat 60
agattcttat tgttgcaact ctataattcc ctccacctta ttttcaccag gcaaaatttc 120
ttcgtttttt ttatagctca gttcagattt cactttattt gtgaaacctt ctcatctgtc 180
cgctagttaa aagaggcctt tctttcattc tcatggtttt gtctattgta aagtactatt 240
attattggtt tatgtatctt tcttcaaccc actgtgattg tctcgag 287

<210> 1492
<211> 275
<212> DNA
<213> Homo sapiens

<400> 1492
gaattcgcgg ccgcgtcgac tccctactcc ccacccccga cccccattca gaaagaagca 60
ctgtttgacac ttcaatgcat attctgaact ccaggtcctt tctttgcata catcaagctc 120
tcacctctt gccggctctg tggctctgcaa acccagagag cagatgcttt gctcagcgct 180
cgtaaccagc cagcacccca catgctctct ttgtacctgg gtttcaaccc acaggtcggg 240
ccctgttaag cccttggtctc cccaagcttc tcgag 275

<210> 1493
<211> 393
<212> DNA
<213> Homo sapiens

<400> 1493
gaattcgcgg ccgcgtcgac agctgatcca agttttatgc tgatttttcc aaagatctct 60
ccctcccttt ccctccataa ctccacaggta gggaaggggg cggcattagg atgggtgttac 120
tgatttggga ttttatgttg ttctgtcgtc ttcagcacag gtagtataag gttatattac 180
tgtagaacca cagtgcctat ctgtccagca gtgcccgcgc ccacctcaa agctgagcag 240
gttgagcctt tgccctagtcg gggccagacc cctcagatgg ggatatccct gggggagccc 300
ggtgctgaac cagaagaggc ttctgtgtgc ttctgtccta ggccaccact cctccagccc 360
tttgcccgca catacatgcc ccacaaactc gag 393

<210> 1494
<211> 269
<212> DNA
<213> Homo sapiens

<400> 1494
gaattcgcgg ccgcgtcgac aagatacaat aaaacatact taactgtttt aaaaagtgtg 60
tcataggagc ttttgaacat acaaatagaa tcatacttca atttcagttt atactgaaca 120
aaatacagtt tttctttgaa ttggtagtac ttcagaatct gagtgtctta acagtcattg 180
tgtttagtaaa tttgagtgc tctgtatgc tgggtattca agatgctaag gatccatcca 240
gctttgaaca agacaaggcc cagctcgag 269

<210> 1495
<211> 309
<212> DNA
<213> Homo sapiens

<400> 1495
gaattcgcgg ccgcgtcgac gaggacttaa cttcagggtca gttgctgagg aagaggctctg 60

```

aaggtaatat tagtaccccc ccaactactt tcagctggaa acaagagttg ttggggccct 120
tactgagttc ctactttaga gtcaagggtt ggccctccccc tgcattctgc tgcattgtacc 180
tcacaggtga gcagataaca tttttgtgca gctattccct tatgatttcc tctctattag 240
agagaggtgg gagcctatga cagactgcag agtggttgct ccattcttcc ccaccccata 300
gctctcgag                                     309

```

<210> 1496

<211> 314

<212> DNA

<213> Homo sapiens

<400> 1496

```

gaattcgcg cgcgctcgac agccatagaa gaaacttgag tatgcctggg caccctcttg 60
gactctgctgt cttaaattata tatatatattt actgcaggaa agtatacttc gtaaggagta 120
gtttttattt atttgtttat ttgggttctca gtggaaccct gtcaaatccc ataaaagcgg 180
aaaaaaacaa aactcatttag agtggttttaa attgaatggt tgccttttac atatatattgc 240
tcttcagcat ggttcctaat ttgaatgtta catgttttaga aaaattttca gccagggtgcg 300
gtggctcact cgag                                     314

```

<210> 1497

<211> 303

<212> DNA

<213> Homo sapiens

<400> 1497

```

gaattcgcg cgcgctcgac cctaaaccgt cgattgaatt ctagacctgc agcctgggtg 60
gcagagcaag tctccatctc acaaaaacaa gcaaacaaac aaaaaataaa caaaatcaaa 120
aacaggaaca tgaaaactgc ttttgttctc ttgtgtaata gatttacttt attttttttt 180
ctgtttcctc ttcatttttc tatttttctt tctttatcct ttttttgggg gggggcagaa 240
tctcactcag tcacccactg ccctgcagcc tgggtggcag agcaagtctc catctcactc 300
gag                                     303

```

<210> 1498

<211> 380

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (21) .. (23)

<400> 1498

```

gaattcgcg cgcgctcgac nnnagtgtgg ggttttttcc ccccaccagg aagtggcagc 60
atccctcctt ctcccctaaa gggactctgc ggaacctttc acacctcttt ctcagggacg 120
gggcagggtgt gtgtgtggta cactgacgtg tccagaagca gcactttgac tgctctggag 180
taggggttgta caatttcaag gaatgtttgg atttcctgca tcttggtgat tactccttag 240
ataccgcata gattgcaata taatgctgca tgttcaagat gaacagtagc tccatagtaat 300
cataaaaatcc actccttgca cagtttgatc tttactgaaa tatgttgcca aaattttatt 360
ttgtgtgtgt agctctcgag                                     380

```

<210> 1499

<211> 498

<212> DNA

<213> Homo sapiens

<400> 1499

```

gaattcgcg cgcgctcgac cttttctagc cttagacaaa tgatcaccat gttagcctta 60
gacgaagaag ctggctagtc ctttctgtga agctaataca atgggtcattt ccagacaaaat 120
ttaaaggaaa cactaaggct gcttcaaaga ttatctgatt cctttaaaat atatgtctat 180
atacacagac atgctctttt ttttaagtgt tacattttta tagagatgaa tcagttttgg 240

```



```

aatctaagct gtttgccaag ctgaagctac aggttgtgaa ataattttta acttttggaa 300
tcatactgcc tactgttact ctaaatagaa ataatagggtt ttttttaatg tgaatttttg 360
cctatcttta aacatttcaa tgtcagcctt tgtaacctt aaatacactg aattgaatct 420
acaaaagtga accatctcag acctttactg atactacaac ttttgttttc tgatggccaa 480
aatacctaat acctcgag                                     498

```

<210> 1500

<211> 334

<212> DNA

<213> Homo sapiens

<400> 1500

```

gaattcgcg cgcgctcgac tgaagaagtg aaaatgacaa taatgactct caagaggctg 60
gcgatgtgac atggcaaatg tagaactgac ttaaattgaa caaacctca ctgagcacct 120
ctgatgttga gcacctgctg aatactgagc actgaatggg ggagggggag gggagcacgg 180
ggtgagtcaa cctgggactc ggtctcaggg atatgcctac caatagcggg tatcgttaagg 240
catgtaccca aacataacgg atgtaaggca gaaagtgatc ggagaaggaa tgagaaagtg 300
tgcgtgatgt taatgaaaag tctaacagct cgag                                     334

```

<210> 1501

<211> 220

<212> DNA

<213> Homo sapiens

<400> 1501

```

gaattcgcg cgcgctcgac aattctagcc ctctcagcaa cttaattata aaacaattac 60
ttctaatttc tcacttagtg ttggggaatt ttgcttgcca ttttctaggg aaagaggaaa 120
agcagaggta gtggtagctt tgaaaatgtg gaaccttatg ctattatgta taacttcact 180
tcaatatggc ttacagaag acacagtcac ccaactcgag                                     220

```

<210> 1502

<211> 165

<212> DNA

<213> Homo sapiens

<400> 1502

```

gaattcgcg cgcgctcgac gggcagggtat tgaactctta agtacaaaat tattttccca 60
aagaatttta aaatatacta tcccactatc ttttgcac cagcattagt aattatagga 120
ttattgctgg ttgctactct ttctgtctat cctcagtgtc tcgag                                     165

```

<210> 1503

<211> 614

<212> DNA

<213> Homo sapiens

<400> 1503

```

gaattcgcg cgcgctcgat gtacatatatc ataagcatgc acacagacag acataaaaaat 60
gatagatgta tataagacat tgtatagact gttttatgat agggtaatac acttttcttt 120
tcttttctct ctttgtccag ctcttctgtt ctttatccat atcatactct atccctactc 180
aaggaaacct agcaacatgt ttatagttcc atatgtctca ttatgtctat atgtcattta 240
catggtattt tatatacagg gtttacacat ttatagtaaa cgatctttat atagttttata 300
caatatctgt ttttcttttc tctgcaatac aaacgtgttt catatccctc aaacacaccc 360
acaccctca cttacacatg tgttatcact gtttgccttt gtaaacctgt gttcaacgta 420
tacacattaa tcatttaagc atacctgtgt gaaatcctgc caacttgact actgtgcctc 480
caatttcttc ctttttatcc catcataata aacctggcaa taattgatc aaccatatgc 540
acattgatat cacttatgct gtttgtttat ttttactact acaaacatgc tacaacaaag 600
ttccgggact cgag                                     614

```

<210> 1504

<211> 329

<212> DNA

<213> Homo sapiens

<400> 1504

```

gaattcgcg cgcgctcgac aggtaagtca ttttaatttca ctttttcaggt ttgttttggg 60
atttgtctgg gggcagattg ttaaggcctg ttttagaatc agctaccctt gcattgtaaa 120
tggggcttct aagagcacca gatcgtgggc tcttgggtcc cggcaaggca gagctgatga 180
gagaagggtcc tttgccgcag cactgcaggc aggatgggat agtttgggtg tttcttgctg 240
tggtgtgttc tctgtgctgg gtgagggaga cagctgggag ttggccttta tccagtgcc 300
gagagagctg tgggaaggat gagctcgag 329

```

<210> 1505

<211> 306

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (23)

<400> 1505

```

gaattcgcg cgcgctcgac agngaaatct gcctcctcca tgtctcaagc cacgtggaat 60
aaattgtgga aagacctgtg ctgtctggct tgtgccttta cacatgctgt tatctctacc 120
tcaaatgctg tcttccccca ctggctaacc ctgtttatcc tttataacag ctcagaagtt 180
gcctgctcaa agacactttc ttggcctgaa ttagaactgc cctctcacgt gctacttcca 240
tcacagatct taccatctat tatattatta catacacaca cacacacaca cacacacaca 300
ctcgag 306

```

<210> 1506

<211> 353

<212> DNA

<213> Homo sapiens

<400> 1506

```

gaattcgcg cgcgctcgac ccttttttca cacaggtgat agaaatcctt ctaactcctt 60
gattctttca ctttatctta ctggctctta catgtcagaa cacagaagtt gtgttttgtt 120
tcgttttgtt ttacagagct gtggtaagta ttggatgggc cattgttttg atgttttcga 180
tgttctgtcc tttcttagat ctattcgagg gcatttgggt tgtctccaat ttgttggtac 240
ttcaaacaat ggtatactca atacagtgtg ttagggtagg gattttttaca gaagaaacta 300
aacagccgtt agaaaattat ttttttacat taactcaacc agttattctc gag 353

```

<210> 1507

<211> 331

<212> DNA

<213> Homo sapiens

<400> 1507

```

gaattcgcg cgcgctcgac ggaaaatgaa gctcttaaag atatgctgta aaacagccac 60
agagttcaca acaccttata tcataggtgt tcatgactcc taaaagtctg taagcccaag 120
aagacaagac catatctttt tcttagttaa tcatgatgga agtattgtgc agatttttaa 180
actagcttta ttgtggttta attgacatac aataagttgt atatatttga agtatatagc 240
ttgataagtt ttgatagtgt tataccaata aactcatgac gacaatcaga taatgaacac 300
atccaagacc ctcgagtaaa gttgactcga g 331

```

<210> 1508

<211> 229

<212> DNA

<213> Homo sapiens

<400> 1508

```

gaattcgcg cgcgctcgac gaggtccccc ttttttctaa atttctctgt gtgcttttct 60
ccccctgcta ctttttccat ccgttctctt tcaactcttg tctctttgca agtccctaaa 120
gtatcatcca ttttgccgtg tatttatggg tctccctcat tcttttctcc tcagttttct 180
cttttctctg ctgtcttggg gagcttctgc atgtgacca attctcgag 229

```

<210> 1509

<211> 551

<212> DNA

<213> Homo sapiens

<400> 1509

```

gaattcgcg cgcgctcgac ccaacagatg agtctttttg gtactagata ggaagagtg 60
aatgtcctgt gttgatatag aattgtttta gttatctgtc cctgtcttaa tttctctgca 120
tatttagtgt aattatcttc ttgatctatg ttgtcttagg atgcaagggg gaatttgagc 180
atccttctct caatcttttc ctctatcag agtctcagaa tccactcttc tatttccatt 240
tgactaaatc ataggcatct aagagggagc cactctcgcc ccctactaac tagcagaata 300
agactgacca gtttccaact aatcaattac ttgagttacc atgtccggca gatttctact 360
ttgtgtatc tctcaactct gttgccttgt tcatttccag caccactctg ccagtccagg 420
ctttgatccg cacatagctg gactaaactg tcatctacct aatgtggctc attctccata 480
gcactatcag attaatcttc ctaatgtggc acttgacccc tactacttct tgcttaaagc 540
acaacctcga g 551

```

<210> 1510

<211> 273

<212> DNA

<213> Homo sapiens

<400> 1510

```

gaattcgcg cgcgctcgac gcttttttaa aaaatttcag aactgtgtac tgtgatgaaa 60
ctgctgacga atcctcagga attaatgtgc atcaaccac tgcttttgct cacaagttac 120
ttcagctctc tggagtgtct ctcttctggg atgagtttct tgcacagcc aaatcttccc 180
cagtgtgttc aactgcacca gtggaaactg agccaaagct ctcacctagc tggaacccca 240
aaattattta tgagccacac cccacagctc gag 273

```

<210> 1511

<211> 291

<212> DNA

<213> Homo sapiens

<400> 1511

```

gaattcgcg cgcgctcgac aattatcata ttttccataa agagagcatt gatttcatcc 60
attggcatat tgagatgctt tctgtttga cattggtcac agaattttaa aggaaaaaca 120
acattactgc acattcagga atcagaaata gaagtaaagg tcaggatctt aaaggggaac 180
ttgacaggat atcaggcctg cctttaaaaa aattcagaca tgataagttt actaccaatc 240
attttttcaa taacaacaat aatataattt tattttccca tgggaactcga g 291

```

<210> 1512

<211> 229

<212> DNA

<213> Homo sapiens

<400> 1512

```

gaattcgcg cgcgctcgac cgcgtttcag cgaagtcgca cgtgaaggat agcagtggcc 60
tgagaaagac ccagtcattg cagcctccag catcagttca ccatggggaa agcatgtgtt 120
caaagccatt ctgatggctc tagtggccct tatectctc cactcagcat tggcccagtc 180
ccgtcgagac ttgacaccac caggccaaca gaagagagaa accctcgag 229

```

<210> 1513

<211> 104

<212> DNA

<213> Homo sapiens

<400> 1513

```
gaattcgcgg ccgcgtcgac ccgccaccga aaatctgttc tgacatgaga atgttcacaa 60
aagacagcac ttctcgactt ctgctgataa gcttgggtct cgag 104
```

<210> 1514

<211> 357

<212> DNA

<213> Homo sapiens

<400> 1514

```
gaattcgcgg ccgcgtcgac aaatcttatt gttgttttaa aaacctgtgt tttttatatg 60
agggtttaaaa aatccatatt ttctattact cctcttctag gttctgagtc ttctggtagt 120
gtagggtcat ctacaggctc tctttctcac atccagcagc ctcttcaggg tacagctctc 180
agccagtcct ctcatggcgc acctgtcgtc tatccaactg tcagcactca tagttctctt 240
tcctttgatg gtggcctaaa tgggcaagtc gcattctcta gcactagctt ctttttgcct 300
cccttggaag cggcaggcat accacctggc agtattctga tcaaccactt tctcgag 357
```

<210> 1515

<211> 237

<212> DNA

<213> Homo sapiens

<400> 1515

```
gaattcgcgg ccgcgtcgac ggtatttgtc tactgtatta acttcgacca tcccaataga 60
aacgtgccaa taaatcattg atgatcttta attgctgcct gtacgggtgca ataataccaa 120
tatcagaggg actgcattca gccttaacaa aaatggaggt taggaaaact atgagtttgg 180
cttctgttac attgctcacc accacctttt tcaacttgtt ctggcgctgg actcgag 237
```

<210> 1516

<211> 543

<212> DNA

<213> Homo sapiens

<400> 1516

```
gaattcgcgg ccgcgtcgac cgaggacaga agatagaaac aagagtttga ggtttggctt 60
tgattagaaa cttgggtggc tcaaaagaaa cttaccagaa gcacagtagc tgtaggtttg 120
gggtcccaaa agggtagcct gagcttttta gggctaaaac tgggaaagaa acacctaaac 180
tgtgtcttaa actaaattta tgactgaggt tctgccatgt ggtgatttat agtatgtgct 240
ttcagattcg cctacttta atcatgaaag cttcattcta tagaccacca cctgtgtgat 300
gtccttggtt tcaaaagacga tttaaacttg gactgttttt ccagtaaaa gagatttgct 360
ttcagaatgt cgagtgtatt cataacggat ggttcttcat tacttacaaa tttttgtaat 420
taatcttctg atgaaacaaa aagctatgat gttgctgtta atgtgtattt gatagatatt 480
ggttgacaaa tgcaggctaa atgggatgtg gcaatacttt ggggccagat atagaggctc 540
gag 543
```

<210> 1517

<211> 431

<212> DNA

<213> Homo sapiens

<400> 1517

```
gaattcgcgg ccgcgtcgac caactgcatg gctccatttt ttcaggccat ccatcaacca 60
tggggtctct gattctcttt ttctttacat cccatgttct attcattagc aactcttgct 120
agtatagctt tgaaaataag ttggattatt tctaaactacc tggtactgct cttgactttg 180
gacaatatgt tatcaaccag tgaccatttg aaagtataca aattatttga cttacttgag 240
caaaatcttc ccgtggcttc tctctctcacc cggaatccag cttgaagaat aaccactacc 300
tacatggccc tgcgcgctgc ggtccgggac gccatcttgg cctcagctcc caaagcacct 360
tcccctctca ccgtgctcca gctgcgcgct gtgctcctcc ttactcttac gggatacccc 420
```

acccccctcga g

431

<210> 1518

<211> 361

<212> DNA

<213> Homo sapiens

<400> 1518

```
gaattcgcgg ccgcgtcgac gggagggtcaa agctgcagta agtcaagatt gcaacgctgc 60
actccagcct ggggtgacaga gtgagaccct gtctcgaaaa agaaacatac ataaggaata 120
tattgtctca gatatctaaa gaatccagga gtacacctgg tgttgccac tgggtgatgt 180
gggtgggaaa caatctttct ccattcttta ggtctactgt tttctgtgtc tcctccattt 240
taagatagac tttgttaagt aaaagtttac tgtttccagt ggaaggaaat tgctcttttc 300
caaacagtac caataaaagt tccaaggctg actcatgggt ccaactatag cagtgcctca 360
g 361
```

<210> 1519

<211> 274

<212> DNA

<213> Homo sapiens

<400> 1519

```
gaattctcga gtcaaataca ccaagtcgga ctgcggtta atcgaagtca ctgagaccat 60
ttgcaagagg ctcttggtat atagcctgca caaggagagg accggcagca atcgatttgc 120
caagggcatg tcagagacct ttgagacatt acacaacctg gtacacaaag gggccaaggt 180
ggtgatggac atccccctatg agctgtggaa cgagacttct gcagagggtg ctgacctcaa 240
gaagcagtgt gatgtgctgg cgacgagtct cgag 274
```

<210> 1520

<211> 687

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (21)

<400> 1520

```
gaattcgcgg ccgcgtcgac ntacgcattg gcactctgag ttcattaggaa gatagttaaa 60
aagaaaaatga gtataggatt tgaactaaaa ataactgggt acttgaagat tgacttgcaa 120
agtccagttc attattttga cagatgcatt tcaagtagag ttgccagaca aaatatagga 180
ttttgagtta gattagaatt tcagataaac agcaaataat tgttttaata taagtatgtc 240
cgccaaactg tagatatact gaaagctatt gctgtttatt gaatcaaaat ttaattgggg 300
gtctgtgaatt cagttttgcca aatctggctc ccctagttcc acacaagtta atttcttgca 360
cattgtgata taggaggctg gataccatag atacggtaga gttgtacatt atccaggctg 420
cctgagtcct aaaccagtat ccatttcctaa ggtcttatga ttaggataaa agattttcta 480
cttcagcaca aagtgccttt tgaaaatttg tgatgattat ttctggaaat ctgtcccatc 540
ttagcattgc tagagttggt ttatcatgag acataactca agagaaatta gctatactga 600
gatcatttta tcaaaaggta tcgtgacata ggcaatttga tatgtcccaa gtctgcctcc 660
aatgtcaggt gaggttcccaa actcgag 687
```

<210> 1521

<211> 132

<212> DNA

<213> Homo sapiens

<400> 1521

```
gaattcgcgg ccgcgtcgac gagattgtgc cctcttttcc attctctccc aatagatctc 60
atgtctaaca ctactctaac ttgtctcccc tctgagacca gcatgaactc cagttctttc 120
tgccctctcg ag 132
```

<210> 1522

<211> 324

<212> DNA

<213> Homo sapiens

<400> 1522

```

gaattcgcg cgcgctcgac gtgatcttca gttttcactt gcacctttga atattctgcc 60
atgtttgaat tccttagaat gatcaagcat cttttttgtt gttgggggtt gggtttttgt 120
ttggttttgt tttgtttgag acagagtttt accctgtcac atgggctgga gtgcagtggc 180
atggctcatg ctcactgcaa ccttgaccat ctgggctcta gtgatcttca gcctccccga 240
gtagctgaga tcacaagtgc taattttgga aaaattgttt gtagagacag ggtcttacta 300
tggtataagc ccaggcctct cgag                                     324

```

<210> 1523

<211> 373

<212> DNA

<213> Homo sapiens

<400> 1523

```

gaattcgcg ccgaggcaag aagttcccg gtatacagat tctgaaccca ggcaagaagt 60
tcccatgtgt tcagaccctg aaccaggca agaagttccc acatgtacag gccctgaatc 120
caggcaagaa gttcccatgt atacaggccc tgaatccagg caagaagttt taatacggac 180
agaccctgaa tctaggcaag aaattatgtg tacaggccat gaatccaaac aggaagttcc 240
catatgtaca gatcctatat ccaagcaaga agactccatg tgtacacacg ctgaaatcaa 300
tcaaaaatta cctgtagcaa cagattttga atttaagcta gaagctctca tgtgtacaaa 360
ccctgaatc gag                                     373

```

<210> 1524

<211> 242

<212> DNA

<213> Homo sapiens

<400> 1524

```

gaattcgcg cgcgctcgac tcgagattta ctggcaactg ttcttttccc atcaaaaatc 60
agtgaatgtt tgctgagtat aaatgctgct tccttaaac accctgtcgt ttaggatcaa 120
ctttacctgt accttttctc ctttccctcc ttgccacct aggtgcaaat ctgaactcag 180
tgctctgttc ttccattttc tcgtctctct cccctcttcc cccatcccg gtttgctctg 240
ag                                     242

```

<210> 1525

<211> 527

<212> DNA

<213> Homo sapiens

<400> 1525

```

gaattcgcg cgcgctcgac cttgaattct aaaagccaga gctggaaata accgaaaagt 60
cttaagggaag tgtgctgctg tggctgccaa taaaataaag ctaatgagt atgtagaaga 120
gaattctagc tctgaaagt tctgttctgg tcggaagctg cctcaccgca atgcttctgc 180
tgtagctaga aaaaagttat tacataatc tgggaagtga acagagctta aagtcagaaa 240
ttgaagaaga ggagctaaaa gatgaaaatc aaccattacc agtgtccagt tctcacactg 300
ccagagcaaa tgttgatgaa tctgaaaaca gagactcaga gtcagaaaag gatttgcggg 360
tagcccgga aaattggcat gctaattggt acaagtccca tactccagca ccttcaaaga 420
caaaatttct taaaatagag tcttctgagg aagactctaa aagtcatgat tcagatcatg 480
catgtaacag aactgctggc ccatcaacgt ctgtgcagag cctcgag                                     527

```

<210> 1526

<211> 388

<212> DNA

<213> Homo sapiens

<400> 1526
gaattcgcg cgcgctcgac ttcacatcgc tactgttatt atgctatttg ttagcaccat 60
tgccaatgtc tgggttggtt ccaatacggg agatgcatca gtaggtcttt ggaaaaactg 120
taccaacatt agctgcagtg acagcctgtc atatgccagt gaagatgccc tcaagacagt 180
gcaggccttc atgattctct ctatcatctt ctgtgtcatt gccctcctgg tcttcgtgtt 240
ccagctcttc accatggaga agggaaaccg gttcttcttc tcaggggcca ccacactggg 300
gtgctggctg tgcattcttg tgggggtgtc catctacact agtcattatg cgaatcgtga 360
tggaacgcag tatcaccacc tgctcgag 388

<210> 1527
<211> 161
<212> DNA
<213> Homo sapiens

<400> 1527
gaattcgcg cgcgctcgac gagctagggt acgggtgcag gcaggaaaca gaaacaacac 60
agctacacat tottgagata actctgggtt ttatactgaa actaaccaac taagaaaatt 120
attcaatgca ttatacatcc ttaatcccca caacactcga g 161

<210> 1528
<211> 294
<212> DNA
<213> Homo sapiens

<400> 1528
gaattcgcg cgcgctcgac atcctaagca catacgcata tttaaactgg caccaagctg 60
ttaattatgt taatgccttt atggcacaac aatgtaaaat ttactattaa ctggggggct 120
gacctaaaga gctggcaaat ctccccatc ctccctatc tggtatctt gctgggcttg 180
caatgccagg gcctacttag aatagccaca gccacacatg agcatcatgg gagacttctg 240
ggggcaactt cagcttcttc ctctaaaatg attcccgact ccagatcct cgag 294

<210> 1529
<211> 452
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (424) .. (427)

<400> 1529
gaattcgcg cgcgctcgac agatgtcaga ggatttagca aagcagctgg caagctacaa 60
agctcagctc cagcaagttg aagctgcatt atctggaaat ggagaaaatg aagatttgct 120
aaaattgaag aaagatttac aagaagttat agaactaacc aaagaccttc tgtcaactca 180
accttctgag acgcttgcaa gtccagacag ttttgcttct actcaacctc ctcatctcatg 240
gaaagtagga gacaagtgtg tggcagctctg gagtgaagat ggacagtgtt atgaagcgga 300
gattgaggag atagatgaag aaaatggcac cgtcgcaatc acctttgctg gttatggcaa 360
tgctgaagtg actccactgt tgaacctcaa gcctgtagaa gaaggaagga agggcaaagga 420
ggannnttgg caacaaaccc atgaacctcg ag 452

<210> 1530
<211> 369
<212> DNA
<213> Homo sapiens

<400> 1530
gaattcgcg cgcgctcgac ctgaagtaac caacaactag gtctttgtta gctaagcagt 60
gtataagtta ttaacaaaac tcaaaaacag ttaactgttg ttggaaatat tcattctaaa 120
aatcaattta tgaataataa aaactcacca aaaaaatcat caagtaagta gaggagacat 180
aattggctga aataaaacta ggagagaaaa aacccctaaa acccccttaa aactccaaat 240

```
cctctttttt tgattgttca tttttattgc ttgttttatt ctttcattggt tcaaattcct 300
ttagtatttt ttttaattgc aaaagcaatg agtgaggctt tcgggaaaaag cagaaacggt 360
gggctcgag 369
```

```
<210> 1531
<211> 211
<212> DNA
<213> Homo sapiens
```

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<400> 1531
gaattcgcgg ccgcgtcgac ctgcgaggtt tcctttgaga acattatact attggctcta 60
gtctccaaac caataaaaaa ctaaaacttg ttccaagac tgggaggtaa agtaggctta 120
taaaacaata cagcaaaaaga aagccaagtg gcctaattgt ttccagtgtg cttgccatct 180
tagcatggtt actttccaga tgtcactcga g 211
```

```
<210> 1532
<211> 211
<212> DNA
<213> Homo sapiens
```

```
<400> 1532
gaattcgcgg ccgcgtcgac gtgcattgaa ttctagacct gccacatcaa tctcacgggt 60
gattacaaga ttccagaag ccctgaacaa ttcaatttca accatgcctc tagaacatcc 120
tctcttcaca aaaaacccaa ctttatctgc tcgtcccatg aaagcagggt ttccagctaa 180
accaaggcaa atggcacaca caaaactcga g 211
```

```
<210> 1533
<211> 447
<212> DNA
<213> Homo sapiens
```

```
<400> 1533
gaattcgcgg ccgcgtcgac caaggagact aagatgcaga aaccccaactt acctttatct 60
caggaaaagt ctgcaattaa aaaagctagc aaccttcaga aaaataaaac cgctagctcc 120
acgacaaaag agaaggagac aaaactacct ttactttccc gtgttccaag tgcgtggtcc 180
tctctagtac cattaaatgc taaaaattgt gctcttcag ttctaaaaa agataaagag 240
cgttcctcat ctaaagaatg ttctgggcat tctacagaat ccaccaaaaca caagggaacac 300
aaagcaaaga ctaataaggc cgattctaag gtatcttcag ggaaaatttc tgggggacct 360
ttgcgctcag aatatggcac tcctacaaag tctcccccctg ctgcttttga agttgtgcca 420
tgtatcccaa gccatgcagc actcgag 447
```

```
<210> 1534
<211> 150
<212> DNA
<213> Homo sapiens
```

```
<400> 1534
gaattcgcgg ccgcgtcgac gtgggaaag agggaaagaa ggaagatttt ctgatgaagc 60
catgcctgag aggtaatgac aactaggagt tagtcagatt agtgcttggg tgaggcctaa 120
gaaggcactt atgaagctga gaagctcgag 150
```

```
<210> 1535
<211> 253
<212> DNA
<213> Homo sapiens
```

```
<400> 1535
gaattcgcgg ccgcgtcgac ctttagagac caatttgctt gaattttaaa atcttcttac 60
acacatctag actttcaagt ttgcaaatca gtttttagca agaaaacatt ttgtctatac 120
aaacattttg ctaagtctgc ccaaagcccc cccaatgcat tccttcaaca aaatacaatc 180
```


tctgtacttt aaagttattt tagtcatgaa attttatatg cagagagaaa aagttaccga 240
gacagaactc gag 253

<210> 1536

<211> 273

<212> DNA

<213> Homo sapiens

<400> 1536

gaattcgcgg ccgcgtcgac gcaacatggc gtccaggctc aagcggcgtg ccgtggaaaag 60
tgggggttccg cagccgccgg atccccagc ccagcgcgac gaggaagagg aaaaagaagt 120
cgaaaatgag gatgaagacg atgatgacag tgacaaggaa aaggatgaag aggacgaggt 180
cattgacgag gaagtgaata ttgaatttga agcttatccc ctatcagata atgattatga 240
cggaattaaag aaattactgc agcagccctc gag 273

<210> 1537

<211> 347

<212> DNA

<213> Homo sapiens

<400> 1537

gaattcgcgg ccgcgtcgac cctaaaccag cgaacaccag tgcactcacc attcgctctc 60
caactactgt cctctttact agtagtccca tcaaaactgc tgttgtaccc gcttcacaca 120
tgagttctct aaatgtggcg aaaatgacaa caatatccct cacaccagc aacagtaaca 180
ccccctttaa acattctgcc tcagtcagca gtgctacagg aacaacagaa gaatcaagga 240
gtgttcacaca gatcaagaat ggttctgtcg tgcgcttca gtctcctggg tccaggagca 300
gcagtgcggg gggaacatct gctgtggaag tcaaagtgga tctcgag 347

<210> 1538

<211> 287

<212> DNA

<213> Homo sapiens

<400> 1538

gaattcgcgg ccgcgtcgac ctggctgatg gagcacgaag acgaccccca tgtggacgag 60
ccttttagaga ctcccccttg acatatcctg ggacgggagc ccacttcctc agagcaaggc 120
ggccttgaag gatctgggtc tgcctgccga gaagcaaac cgctttgagt gaagaggaaa 180
gacaggaaaca aactaagagg atgttgagc tgggtggcca gaagcagcg gagcgtgaag 240
aaagagaggt acgggaggca ttggaacgtg aacagcaaca tctcgag 287

<210> 1539

<211> 298

<212> DNA

<213> Homo sapiens

<400> 1539

gaattcgcgg ccgcgtcgac cgttgaaatc agcattcaga gcaacttcca gccaggaatg 60
aaattggaag tggctaataa gaacaacccg gacacgtact ggggtggccac gatcattacc 120
acgtgcgggc agctgctgct tctgcgttac tgcggttacg gggaggaccg cagggccgac 180
ttctggtgtg acgtagtcac cgcggtttg caccctgtgg ggtggtgcac acagaacaac 240
aaggtgttga tgccgccgga cgcaatcaaa gagaagtaca cagactggac aactcgag 298

<210> 1540

<211> 425

<212> DNA

<213> Homo sapiens

<400> 1540

gaattcgcgg ccgcgtcgac ggagagagca cttgcagggg aactcccatt tataaaacca 60
tcagatctca tgagacttat tcaataccat gagaacagca tgggggaact gcctccatga 120

```

ttcaattatc tccacctggc cccacccttg acacatggga attgtaacaa ttcaagatga 180
gatttgggtg gggacagagc caaaccatat aattcttccc tggccctccc aaatctcaag 240
tcctcacatt tcaaaaagcaa tcatgccttc cccaaagtcc cccaaactct tatttcagca 300
ttaactcaaa attccatagt ccaaagtctc atctgagaca aggcaagtcc cttccaccta 360
tgagcctgta aaatcaaaag caagtgagtt attttctaga tacacaggga tacaagcatc 420
tcgag                                           425

```

<210> 1541
 <211> 347
 <212> DNA
 <213> Homo sapiens

```

<400> 1541
gaattcgcg cgcgctcgac ttatacttct gctacctgtg gtctttgtct ctttaccctg 60
aagacctctt tgcttggtcc acttaggtcc tgccctccaa ctctcctgcc ggtgtcagcg 120
gtgaccttta ttcatgggtc cagtggacaa cctaatgctg tctttctgca ttctacaact 180
tcatttggca gtgttgactt ttccccactc tttgaaacac tcaactgctgg ttcccttggc 240
aggatgttct tctttccctc cccccacccc ttttctttgc cctttccctc actgtctgtt 300
tcgttttttt tcttttacct agcactgaaa cctgggtgtt cctcgag 347

```

<210> 1542
 <211> 282
 <212> DNA
 <213> Homo sapiens

```

<400> 1542
gaattcgcg cgcgctcgac cggaagaaa tgcatgggtg cagcttgctt gaaaataaca 60
ttgctttgct tgttctacta ctctacatta ggggagaatt tcgatcgcca ggccagcctt 120
cggcgggtct taatttacac agacactctg gtaagacgac cgaagaaagt caaaaggaga 180
aagactatta caggagtccc tgacaacata cagaaggagc tagcatcagg cactggccaa 240
gatgatgctg atggccactc agtgtacacc cctgatctcg ag 282

```

<210> 1543
 <211> 292
 <212> DNA
 <213> Homo sapiens

```

<400> 1543
gaattcgcg cgcgctcgac agcgttccct ttgctgcctc caccaccgtc actgtttctt 60
ttccaaggag aacatcagtc ccattggatt gttttcttca ctagttagatt cccagggctt 120
ggagcacaga aggcacccaa taaaagtcat ctgaatgagc caattccctc tccattttc 180
catgtggcta tttaaagcaa ctgtctactt tcctcccatc ttcaacctcc cccacctctc 240
agatgcctcc tacctcagag gagaaaataa atgtactctt cttcaactcg ag 292

```

<210> 1544
 <211> 218
 <212> DNA
 <213> Homo sapiens

```

<400> 1544
gaattcgcg cgcgctcgac gtcaggggaa ctaaaaaaga aaaaaacagt cttgcttgca 60
gcaggtgtct catgcactac tttcttcaat ccttttgtgc catagtggga atctggacct 120
ttgagtgttg cacatgctgt gtagcacaca ttgggcagga tctctatggg ttccctgaac 180
atgacctga atgtgttagc tgtcccatca cactcgag 218

```

<210> 1545
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 1545
gaattcgcgg ccgcgtcgac actgaggagg tttgaggcgc gcgctctggg caggaagcct 60
ccccagcttt ctgaggatga tatctggcta aaaagcgagg gagacaacta tagtgccacc 120
ctcctggagc ctgctgccag ctctctttcc ccagatcaca aaaacatgga aattgagggtg 180
tctgttgtag aatgtaaaag tgttcctgga atcacctcta cccacatcc catggacccat 240
ccctccgctt tctattcacc ccgcataat ggctccttta ctgatcacca cgaatccctg 300
gataatgatg ttgccagaga gatccgctat ctgatgagg tgctagaggc caactgctgt 360
gattctgctg tggatggaac gtacaatgga acatcctccc cagagcctgg tgcagtgggt 420
ctggtggggc gcctaagccc cctgtctctg ag 452

<210> 1546

<211> 449

<212> DNA

<213> Homo sapiens

<400> 1546
gaaattcgcg gccgcgtcga ctttgatttt gggttgacgg cttctggagc ctctcagaga 60
tggatggggc caaatactgc acccaggctt ccccatcaga atcagcacag acgcacctgc 120
atctaccatg tagtcttcca cagtatccct tgggtgggatg ctgggtggct gccaaatttt 180
cactaaaagg aaccatgcgg agaagcacc tgggtctgtg cctccctgtg ggtatagtcg 240
gtgtttatcc agaactagaa gatacaatag caagggaaga tacaatagca agcattgtcg 300
aatgctacag tgtaacactc tgaggctttt tgtgaatgaa ttcatttagt ccttgtaaac 360
ctctgggggt agctcaccat tctgtctcca ttccacagat ggagaatgag gcacagagaa 420
gttaagtaac ttgcccaact tcaactcgag 449

<210> 1547

<211> 175

<212> DNA

<213> Homo sapiens

<400> 1547
gaattcgcgg ccgcgtcgac ctgtggatca tttagctgca gtccctcttc ctacaacctt 60
gatttagatca tataagttcc agaaggcat gccaccacga attcttctta atactgatgt 120
agcccccttc atcagtgaat ttactgcttt tcagaatgta gtccctggctc tcgag 175

<210> 1548

<211> 211

<212> DNA

<213> Homo sapiens

<400> 1548
gaattcggcc aaagaggcct agtaaggaaa aaaatctggg ctgttagagt gaaaaagtgt 60
gttttatgtc aattgtgaaa ggaaaatgtt aggagtatgg tttttaaact tgggcttcat 120
tttaaaattt ttttttttaa acccagttat ttactttgat ttgctagctt cagagaagag 180
atccgaatct gtgccagcg ctgggctcga g 211

<210> 1549

<211> 240

<212> DNA

<213> Homo sapiens

<400> 1549
gaattcggcc aaagaggcct agtgcaggta ctgttttagg tagagtgtac aaagaaacca 60
caagtaatcc tgatgggttt acacttaaag aaaacctgtt gggtatgcag agaacaggat 120
aaaaattata aaataagaga ttggaatatg aagtattttg ccttaatat tttcaatttc 180
agctctcttc tctctcagtg tctctctctc atgtctttct ctcaagcagg ccaactcgag 240

<210> 1550

<211> 210

<212> DNA

<213> Homo sapiens

<400> 1550

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gaattcggcc aaagaggcct acgattgaat tctagacctg cctcccgctt cattgcctgc 60
cctttccctt ctcagtgagc ttctgcaaca ctagagttct ttgtgcacc tatatacatg 120
agacaatttc ttgccttgag gcctttatgc atggtgtttt tctgttcctg gtatgccttc 180
ctcccttcct ttgtctggc taagctcgag 210
```

<210> 1551

<211> 244

<212> DNA

<213> Homo sapiens

<400> 1551

```
gaattcggcc aaagaggcct aagattgaat tctagacctg cctggccttg tatgttttaa 60
gagttttaca attttatctt ttatgcataa atctgtgac catttgaggt taatttttgt 120
tttgttttgt tttgtttgtt tgggtttttt ttgggagatg gagtctcact ctgttcccca 180
ggctggagta cagtgtacag tggcacgac tcagctgacc acaacctctg ccccccattc 240
cgag 244
```

<210> 1552

<211> 254

<212> DNA

<213> Homo sapiens

<400> 1552

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gaattcggcc aaagaggcct agggagtggt actaaggatc aagtatactg ttaaaagaaa 60
acaaaaaccc aagcatgagg aaggcgggtg ccacgtctat gtgggcttcg tgctgtgggc 120
tgctgaatga agtcatggga actggagctg tcagggggcca gcagtcagca ttgacaggag 180
ccaccgggcc attcagattt acaccaaac ctgagttttt cacctacca ccagcagcta 240
cagaagagct cgag 254
```

<210> 1553

<211> 186

<212> DNA

<213> Homo sapiens

<400> 1553

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gaattcggcc aaagaggcct cccgacaaga gcaaaactca gtctcaaaaa aaaaaaaaaa 60
aaaaaaaaaa tagaacattt catccacatg tccatatcca ctaactggat ctttgttttg 120
ataatcctct tccctttctc tgcaggttta ctccagttat atccattttt acctgagcca 180
ctcgag 186
```

<210> 1554

<211> 239

<212> DNA

<213> Homo sapiens

<400> 1554

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gaattcggcc aaagaggcct aaacagatgt taaaatattc agtgaaagt ttattggaaa 60
aagggaattga gatataata tgagattttg tgaaattgaa ggagaaaaatt taagtgagtc 120
tttaaaatat attctgaatg aaaactgtat tgaggattca tttttgttcc ttttttttct 180
ttttctcttt tctctttttt cttcttttta atagcttagt tttaggcagc cactcgag 239
```

<210> 1555

<211> 249

<212> DNA

<213> Homo sapiens

<400> 1555

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gaattcggcg ccgcgtcgac ccagatgaga ctgtggctgc agccagtgt ttgctggtaa 60
cttgtagagag atgctgagcc acaggacctg gctaagtggc atccatattt cagatccatg 120
```

gtaactgtaa gttagtaaac tttgttgttt taagccacta aggtttgggg taatttgta 180
 tgaagcaata aataactcat atgccaacta tgtgccaggc actattcttg gctctgggga 240
 caactcgag 249

<210> 1556
 <211> 210
 <212> DNA
 <213> Homo sapiens

<400> 1556
 gaattcggcc aaagaggcct aaatttatat caggctctttt tttccccctc taattctgag 60
 tttttgctag gatagatctt tcacctctta gaaaatcact ctatctgac tttaaatccg 120
 tgagttggaa tgagaaatat tccacttgct aaaattttct tcagcttttt aactttttac 180
 aatctcaaca ggtcaaaggc agatctcgag 210

<210> 1557
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 1557
 gaattcggcc aaagaggcct actatatctc atacaattag atttgttctt gcctcaagac 60
 ttcagtctga ttggatgttg atgctgtatt ttgcacatac tcatttgact gtgacagtca 120
 ccattgggtt gcttttgatt ccaaagtttt cactttcaag caataaccga cgagatgata 180
 ttgctacaga agcatatgag gatgagctag acatggggcc atctggatcc tacctgaaca 240
 gcagtatcaa ttcagcctgg agtgagcaca gcttggatcc agaggacatt cgggacgagc 300
 tgaaaaaact ctatgcccga ctggaaatat ataaaagaaa gaagatgac acaaacacg 360
 ccctcgag 368

<210> 1558
 <211> 474
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (19)..(23)

<400> 1558
 gaattcggcc aaagaggcnn nncagaggg aggctgactc aggggtttgga atggactgta 60
 tagcacagtg aggccaggg gctttgaact tctcctaga tttcagttct gaagccttca 120
 cttactggct gagagacttg ggcaaattat ttaaccttcc tgtgagtatt ctcacgata 180
 aaatgggagt actgacagta ctgtatctcc tcagaggatt gttgcaaaga ttagcttcag 240
 taatgtgcac agagtactta ggacaatacg aagtgtgcag taatacattg ccattaaaaa 300
 gagatctcgg gtgtcccgcg gttgccgaat ggagctgagc atcttgatgg aaccagggat 360
 ctcagggtga agactgaagc cctaggctat ggcggaagtt ggggtgcctga agtacaagtg 420
 gaaatatgcc aactgaaccc taaaccgtcg attgaattct agacctgcct cgag 474

<210> 1559
 <211> 128
 <212> DNA
 <213> Homo sapiens

<400> 1559
 gaattcggcc aaagaggcct aattgaatgt taccagaggc tttttctcca cctatggaga 60
 taatcacatt tttgttctt cattctgttg atttatcatg tttattgttt tgtgtatgtt 120
 ccctcgag 128

<210> 1560
 <211> 250

<212> DNA

<213> Homo sapiens

<400> 1560

```

gaattcggcc aaagaggcct agctctctat acagatcttc caaacagaca agcccttcag 60
agccaagatt gcttcaatca ccagcatgtc agaaatagca tcaccagctg cctgggttaa 120
caagtcaata atgttttcaa gcattcttagc agcttttctt ttcttatctt ccagttgttc 180
tgctgattgt tttatcttca tttcaacagc tgtactaaac agtgcagtgc catgcccatt 240
tgctctcgag                                     250

```

<210> 1561

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (21)..(22)

<400> 1561

```

gaattcggcc aaagaggcct nntgcagagg tgctttatat aaattattcc atttaaccct 60
taaattaaac ctacaggtag atattccagt agaatagtta caacaataga gagtaaaatta 120
gcataatgtga aaaatggaca tatgctctgg tttttttttt tttttttttt caatagagat 180
gggattttcc tatgttgccc aggatgggtc cccaacttct ggctctcgag 229

```

<210> 1562

<211> 209

<212> DNA

<213> Homo sapiens

<400> 1562

```

gaattcggcc aaagaggcct agtcgtggtg caattgaggt ttctgttggg ccaatgggtat 60
ctgttattct ggcttttatt tggtctttcc tagcagctgc ttcactagca gtcategggt 120
cagggaagagc tgaaggaata gaagaattat tgatgttggg gactggacaa tcttttttgg 180
caaattttaa tgcaaatat gactcagag                                     209

```

<210> 1563

<211> 278

<212> DNA

<213> Homo sapiens

<400> 1563

```

gaattcggcc aaagaggcct accttgaagc atacataata ggtgttgggt tattttttcc 60
tcatggaatc atgggtagtt tcaattgcagc tcatctcttt ctgtttgttt cgtatagggc 120
tgatagttca ggaccattca gaccccatgt tcagttcata tgcctataag tcccactacc 180
tactgaatga atcaaatcgt gctgagttga tgaaattacc tatgattcct tcttcgtcag 240
cttcacaaaa gaaatgtgag aaaggtaata atctcgag 278

```

<210> 1564

<211> 234

<212> DNA

<213> Homo sapiens

<400> 1564

```

gaattcggcc aaagaggcct acctgatgc gtgatgatgg caccaccctc tcagatgata 60
ttcacgagct ttatgtgtac aagtgtgatg agaatagcac gtttaataac catgctctgt 120
acctgggcct gccctgctgc aaagaggact acaatggctg ccttaatatc ccttctagcc 180
tcatcttcca gcgcagcacc aaagagtctt tcttcatctc cactacagct cgag 234

```

<210> 1565

<211> 294
<212> DNA
<213> Homo sapiens

<400> 1565
gaattcggcc aaagaggcct agtttctgta agatacagcc ttagtgaata aaacctggaa 60
tttcttaggt gagcggaaaa ataagaggct ttaaactctt catccacaaa tacaagcatg 120
aaaacttgga cactttttta aaaaattttc ttttttatgg cggttgaggt ggaggtttca 180
ctgtgttgcc taggctgccc tcaaattcct gggctcaaaag gatccgccta cctcaggctc 240
cctagtagct gggactacag gcacatgcc a cgcacctgg ctctcccact cgag 294

<210> 1566
<211> 203
<212> DNA
<213> Homo sapiens

<400> 1566
gaattcggcc aaagaggcct atttaaacag caaactgtgt gcactcaact gttatcacia 60
tgttgtcaag aggtctgtgt cttttaccat ttacacaca attgttcatt acagtatgtt 120
gtcagcctcg tggaaaccag ggggtgtgtc tggtgaagcag tgggtgtagt gcacctagct 180
tttatattat cactgcctc gag 203

<210> 1567
<211> 241
<212> DNA
<213> Homo sapiens

<400> 1567
gaattcggcg ccgcgtcgac atgcagcccc ggaaagagct agagacaggg aagaacgatt 60
ggcagcactc acagctgctc aacaagaagc tatggaagag ttacagaaaa aaattcagct 120
caagcatgat gaaagtattc gaagggacat ggaacagatt gaacaaagaa aagaaaaagc 180
tgctgagcta agcagtgggc gacatgcaaa tactgattat gccccaaac tgaccctcga 240
g 241

<210> 1568
<211> 366
<212> DNA
<213> Homo sapiens

<400> 1568
gaattcggcc aaagaggcct ccgagatttt ggtgaaaatt aaattagata aacgatgagc 60
agaatgtctg aacacatggt tggcaatcag aaagtatttt ctccaacctc ccttcccaa 120
cacacctctc aaaacctttc ttttccatc tatcactcag ttccatctct cctggactac 180
tgctctccga caggggtttc agccttttgt ctactactcc ttcaaaccat cccaaacctg 240
ctattacaaa caacattcaa aaatcagaaa ttgatcatg gcactccctg tcacaaatcc 300
tcctatggtg ataacattca gaacaaatct gcattcagag aaagtccacg tgtccctgc 360
ctcgag 366

<210> 1569
<211> 236
<212> DNA
<213> Homo sapiens

<400> 1569
gaattcggcc aaagaggcct acgtcgattg aattctagac ctgcctccag cccataggct 60
aattgatatt cttaacgagg gaaggcaagc acctcatgaa aggttttgtt tgtgtttct 120
ttttctttt tatctctgtt tctagagaca gcaaccttat cagtcagca gatcttaata 180
gactagaaaag aagccaggag agtattaaag aactcttaac acaagagaat ctcgag 236

<210> 1570

<211> 184
<212> DNA
<213> Homo sapiens

<400> 1570
gaattcggcc aaagaggcct agcaagattg tttctcggga acagctgtat atgaaatggt 60
gattctcagg gagacaccta gacacctgaa ttgcagcaga ctttttatgg tgttgctaag 120
ttgctggtec ttctcatcag tagcaggcct actctcactg tcacatatct cccacggctc 180
cgag 184

<210> 1571
<211> 184
<212> DNA
<213> Homo sapiens

<400> 1571
gaattcggcc aaagaggcct aagatagttc acaatttatt ccgtgtatcc aagcctgcgt 60
aaacgggaat ttgctaaagc aaattgggaa ttggggatta actaaagga attgtgagaa 120
agagaaagaa caacttttaa gaagtatggt aactgtcata ttttcactta aggggctcct 180
cgag 184

<210> 1572
<211> 238
<212> DNA
<213> Homo sapiens

<400> 1572
gaattcggcc aaagaggcct acgagatgaa tttctatgca ttattggaaa ataaggacaa 60
agtcttccta tttatcatgt tgtggattat tgatggaaga tgctgtggat tggctcagtc 120
aacatccaact tcacctcaa acaggatatgc cttcctgcaa agcaaaagga atcccaaaac 180
ctcttcgagc tatagttgcc aaaagcaatt tcagttctgc caaccagagg gactcgag 238

<210> 1573
<211> 219
<212> DNA
<213> Homo sapiens

<400> 1573
gaattcggcc aaagaggcct agattgaaaag tgatacaatt tgaatatttg tatattgtca 60
ttggctcagta atggaaaaat gagattccac cagtgggtta ctcttttctt gtcttggttt 120
gctatgcctt atcccagatc agtggtttgt tccatcccta tggtcatttc taaagccctg 180
acaggagcat cccagactgg agaaatgcag caactcgag 219

<210> 1574
<211> 236
<212> DNA
<213> Homo sapiens

<400> 1574
gaattcggcc aaagaggcct aatttgcatt cccttagagt cttctatttc tgtttttacc 60
aaagcagtc tcatcattga aagcagcaga gctgttttgc tcttaattaa ctaatttaat 120
aaaaaccagg gattttattc aatcttgaaa taattgcctt ctgtcgaaca gtttaaaatc 180
atacagttag caaaaattta agaataatct aaatgaaaa tagaggggca ctcgag 236

<210> 1575
<211> 199
<212> DNA
<213> Homo sapiens

<400> 1575


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gaattcggcc aaagaggcct agtgatctat ccccatctga gcccgacaag ttttgagta 60
atttattaga cagagataac taatacaaat ttttcagtgg acaatatatt cctgtttttg 120
gatattgctg tcattggaag actgtgccag aaggtaaatg aagggtgggtg taatgtttca 180
tattagaaaa atcctcgag                                     199

```

```

<210> 1576
<211> 243
<212> DNA
<213> Homo sapiens

```

```

<400> 1576
gaattcggcc aaagaggcct aagagaaaaa gaacagagct cttttatata attgaatgca 60
ttgcaggcta gctgaagtga aatcaagtca agaataattgt ctgaggaaat atcaagttac 120
tgtaaaaggta aatccatcaa gaatatctaa agtcaggagg gaaaaaaaaa gaatttagtg 180
tttatctatg tatgttactt catgattagt agatccaata tgagaattaa tgtggtgctc 240
gag                                     243

```

```

<210> 1577
<211> 252
<212> DNA
<213> Homo sapiens

```

```

<400> 1577
gaattcggcc aaagaggcct atgagaaatt aaatgatccc tgcagagttc caaaagttgg 60
gtcaattata tgtgtgcggt attattttatt ctattatttg ctacaaatca agctcagttg 120
atcattttcca tgtcattaga agataagtgt atctttctga gggctaaggg tcatgctgag 180
ctagaagggtt gcaaggctgg agagggaagtg ccttctctcc agcgtcagca aaggctgcgg 240
gcagggtctg ag                                     252

```

```

<210> 1578
<211> 230
<212> DNA
<213> Homo sapiens

```

```

<400> 1578
gaattcggcc aaagaggcct agagagattg cttttctctg aatcatttca ttctagactt 60
tcacattttc ctgctaagtt gtaatgttac ctgtcttctc cttagtctct agcttatctg 120
aatttttatt tgttattgct gcacaaatta ttatcaagtt ccactttggg ctgggcgcag 180
tggtcaccgg ctatagtcct agcacttttg gaggcgcagg cagactcgag          230

```

```

<210> 1579
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 1579
gaattcggcc aaagaggcct accttttttc ccccatcatt ttgcatctct tgccaaactt 60
taaccttgca gttctccatc cctcatcaaa tgccatcctc tgggatctgc ccattgcctt 120
gtttgcctga ctcaccatca tgccttagcat cttttgggca ctcagtcctg tttttggcct 180
ctttacttgg acatcatttt aactgtcact cttcgaacac cttgaatctc gag          233

```

```

<210> 1580
<211> 219
<212> DNA
<213> Homo sapiens

```

```

<400> 1580
gaattcggcc aaagaggcct aattttaaagt gctgcttttg attctctgga gcattatgca 60
ttatagttgt tatccaaaga cttttttgaa aatatgcaga aatttgtggt aattatgtat 120
ttgtgtcttg tgacaattat gttttataga cctacactag tgccagggtc ctattgtaag 180
atgttaaaat ctcaagaaaa ttccacagat gactcgag          219

```

<210> 1581
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 1581
 gaattcggcc aaagaggcct acgtcgattg aattctagac ctgataacaa aggccttgct 60
 tattcctgat atcctatcat catctttacc aatttctggc aattatatcc ctgggcctaa 120
 gttcccatctt ttgtatcctg cctcatatccc caagtctctc atgaagtggg gtccctgctt 180
 gctctacaca ggactcgag 199

<210> 1582
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 1582
 gaattcggcc aaagaggcct aattgaattc tagacccccc gccagcttcc cacacctcat 60
 acgcagccac atctgcccta ttctccatgc ttccagctt gcctgccctt cctcatctct 120
 ccctgcctgt gcagacctcc acccttcttt cctccacccc tccatccccc aatgcttgta 180
 gaccttccat tcattccgtc tcacgtgctg tgggtctctga tcgtccatca cctgaccttc 240
 tccaggactg tcttctcacc ctccccctcg ag 272

<210> 1583
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 1583
 gaattcggcc aaagaggcct aggagtggag gtccaggacc aaggggcttc tggctcctcca 60
 gccctgtac tcggccatgc cctgcggtca ctgcggttgc cgccctaat tgtgccaaag 120
 gctgacccgg cctgggctgc gtacaccttt gccctgcttt gccttaaagc ctccgggtct 180
 gcccgcccc tcgccccctgc ctggcactgc tcaccgcccc aggcgacgcc ggctggacca 240
 ggactgctg gcccttctcc tgcccgccct cggaaccagc ttttctctct taagatgaag 300
 gctgatgccg agagcgggct gtggcgggag ctgggtcagc cccgtattta ttttgctttg 360
 agagagaggc accctaaacc gtcgattgaa ttctagacct gccctcgag 408

<210> 1584
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 1584
 gaattcggcc aaagaggcct atgtgaatat tgtaaaagtg ctgtatgttt agtagtgttg 60
 tgtgcctggc agtgctgact atgactactg tgccatctgt ctgtgacctt gatgtcaggt 120
 acctggccat ggggctacca gcaaggatgt gcaaagggaag aaccgctgcc cctgccctca 180
 gcttcccttat gcccgagcca ctacttatcc gtgaatgtga gtgccaagag aaacctaat 240
 tggtaggggaa gccaaaggcat ctcgag 266

<210> 1585
 <211> 298
 <212> DNA
 <213> Homo sapiens

<400> 1585
 gaattcggcc aaagaggcct agctgtgttg ccattagaac attttaaata gtttcattct 60
 gagttttgta ttgttaaact gtgtctggaa actaaacttt ataattgtgtt acatttttagg 120
 tcagaagaca tgtcttcac tcacatggcat ctttccctac ctctatgtgc catacgatgg 180
 ttatggacag cagccagaaa gctatctttt tcagatggca ttcagtatcg acagagcact 240
 taatgtggct ttaggcaat catcttccac tgcctcagcat gtgttgatga aactcgag 298

<210> 1586
 <211> 276
 <212> DNA
 <213> Homo sapiens

<400> 1586
 gaattcggcc aaagaggcct agaataccat cgtaacaag atataaatcc ttacatatc 60
 atgcttccca taccctttcc ttccattctg cttacgtaca atacttacct tgaaagttag 120
 cagtgaacac tccagtcac catgcatagt ggaaagcttc aagaaataag aataataata 180
 aaaaagttaa aactataatg ataacttggc cgggcacact ggctcactcc tgtagtcccg 240
 gcgctttggg gggccgaggc gggcggatca ctcgag 276

<210> 1587
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 1587
 gaattcggcc aaagaggcct atggtagttg aagagagaac gtttaatctt caattcctct 60
 tgcaggtagg cctcgaactg ggcatacaata tattctacta tcggcttata gctgtcatct 120
 ttatttatct ggctcccaaa tcccacggtg tcaacaatgg ttaacttcag ccgtacattg 180
 ctcgag 186

<210> 1588
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 1588
 gaattcggcc aagaggccta gatcctcaca cctaagccat gttttaggtc cagctacctc 60
 ctccatatca cagcagaagc tgcagtttca acaggtgtag tagcttgccc acaccttggc 120
 gactaagtgg gggcagcagg ttttgaatct gggcggactg cagctggaac ccacatactt 180
 aatccatacc ctagaatcta ggtaggaaaag agaacatgct ttatctgggg ccagggaaat 240
 gactgtggga ggcagtgcaa ggaattgagg ccagtgaggt gggcaggagg ccaatgatca 300
 cggccctctg ttgcctttgc aatgcagttg ggtacatgtg acagtcattg aagaatgtca 360
 aaggtcaggg atgagattgt atgacatgat cagacctgtg ttttagccag atcactccgg 420
 gctcgag 427

<210> 1589
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 1589
 gaattcggcc aaagaggcct agacaacttc agcagtcggt acaagtcaca ttccattttg 60
 attgaataca tgatcttgaa cagctcctgt acttgctctt tgtaaaaaaa aataaaatta 120
 ttttgaatta ttctaccttt gtaaacattt ggctaaaaga atcatcttta agaaattaag 180
 ccatttacat gtttgtgttt ttctatagca gagcattata ttttgatta tatgtttcaa 240
 cctagtctaa gtgggtcttt ttacattttt tcaagaacgg atttcctgga atacagcgat 300
 ataatttttg ttgtcaaat cctaattgcaa ccatttagtc taaacttagt catttatattg 360
 tgacaataag atgtgttcag gggctccctg tttttaagag actcctcgag 410

<210> 1590
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 1590
 qaattcggcc aaagaggcct aggacatgag tgactgaagg aacgaatatt tggagtgggc 60
 aactaacatc aaaagagact ttacatttaa agtgagagat acttttggga gtagaattga 120

```

agttctttgc tctcttttgc ttgaaaaggg cagattttctt taggcagtag ttaggaatag 180
catcttgata tgagcaagat gaaacgtggc tgtcaaggga atcctctaaa atgcttttat 240
ctcactatga agctattttt aaaagttaca tgtttattac taattataat ttgggttacg 300
aaacaggaac aactcgag                                     318

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<210> 1591

<211> 208

<212> DNA

<213> Homo sapiens

<400> 1591

```

gaattcggcc aaagaggcct actctctttt aaataaaactc cattcttccc attccatgat 60
gtcctctaac tctgctctcg ctttttctgc tctgttttat tctccctca ctcctgtct 120
cctggcattg ttcaactcgc tgtgctccat tgccagaacc gtggaggaaa cccctccccg 180
ctgcagccca cccctctcct tctctgag                                     208

```

<210> 1592

<211> 303

<212> DNA

<213> Homo sapiens

<400> 1592

```

gaattcggcc aaagaggcct agacagttca actagaagag actggtaaga gattgcagtt 60
tgcagaaagc agagggtccac agcttgaagg tgctgacagt aagagctgga aatccattgt 120
ggttacaagg taggaacaga gttttaaact tgtacaaagt ttaatcattt caaattttgg 180
cattgtttta aaagacaaca ctattctgga taacctgggt tcttctgat gaacagtttg 240
tttggttggt gttttaacat aatacttttt tctgttgta gtattgttg agactctctc 300
gag                                     303

```

<210> 1593

<211> 189

<212> DNA

<213> Homo sapiens

<400> 1593

```

gaattcggcc aaagaggcct actttaatgc ctttggcctt ccattctgat ttctctgatg 60
agaatattgc tggccctgct ttccctggta ggtatttgcc aggcccaatg ctttaacctt 120
aagctgatac tttgctttag atgtcagctt cgttaccagc agccttttga cccaacaacg 180
gcactcgag                                     189

```

<210> 1594

<211> 291

<212> DNA

<213> Homo sapiens

<400> 1594

```

gaattcggcc aaagaggcct agtaaaaatg aaaatgaaag atacatactt tatgccattc 60
atattgtatga atataggaaa gcacttgaac ttttggcctg tctgtgggtc ttcagaattg 120
ggcagtgga cactctgttg gaagcactgt catgtgggta cctcagagcc tgccctctct 180
tttcagcctt acctcactgc acagctccag ccaaagggcc acgtgcacca aagggtcaca 240
cctgaccagc ttttaatcat tccatacact gaaatgcctt cactcctcga g 291

```

<210> 1595

<211> 416

<212> DNA

<213> Homo sapiens

<400> 1595

```

gaattcggcc aaagaggcct atcccggagc aagcgggcaa agctgctcaa aaaggaaatt 60
ccccttctcc gaaacaagct gagccagcag cacagccagc cctgcccac ggggccaggc 120

```

```

ttggaaggct tcgaagagga cggagctgcg ctggggccgg aggcgggcca ggaagtcctt 180
ccgagggttg agactcttct gcagccaagg aaaagggtcg ggagcacatg cggagactcc 240
gagggtggagg aggagtcccc aggaagagcg ctggacgcag gtctcaccac cggctttggg 300
ggtgcgagga gcgagcagga gccgggcccgc ggcttgggga ggaaggccac accccgacga 360
cgctgtgcct ccgagtcag catctctctc agcaacagcc cgctctgcga ctcgag 416

```

<210> 1596
 <211> 297
 <212> DNA
 <213> Homo sapiens

```

<400> 1596
gaattcggcc aaagaggcct aaaagacat ggagaaatca ggtttttttg gtgaaaataa 60
acatcaatac ccattttgac gtgaatatct aaagtgttat gaaaccaact acatataatt 120
ttaaaatgct ggggctcata cgtgaagggt gagcactgtg ggcaaatttg gaaagattct 180
ctacatttaa agattattta agggactggt atttatatga caggataggc taaataatca 240
gtcacaacag attctggagt gaactgggga gaagtatggg atagtgcaga gctcgag 297

```

<210> 1597
 <211> 217
 <212> DNA
 <213> Homo sapiens

```

<400> 1597
gaattcggcc aaagaggcct agttgaactg tgtgttatct gattttctaa ctctgactg 60
ttccacaca tcttgacctc cgttgtgaa tataaacaga gacatttaga tgagcatgtc 120
taatggtcat attaaactta gaatttggag actcttgagt ttctttcttt tttctttttt 180
tttggagaca gagtctcgct ctgtcccca gctcgag 217

```

<210> 1598
 <211> 403
 <212> DNA
 <213> Homo sapiens

```

<400> 1598
gaattcgcgg ccgcgtcgac cataccagaa ttttaggatt ttattttacc ttctaataa 60
taattagttc taaatgtgtg ttaacccttt ttcccccaa tttaagggtt tgtgttttca 120
tatcttatct ttttggattg ctcttataat aatgaactct tcctgtatag gtatgaaac 180
accagaagaa caactggtgt gtgtgccacc acaggaggcc ttctctaacy acccccgggt 240
aataaataga cagagaagtt ctgattacca gtttccatcc tctccattta cagacacact 300
aaagggcacc actgaggatg acgtgttgac aggtcagggt gaggagcagt gtgtgccagg 360
agcagaggca gagccgctcg cagtgcgctg aaccacgctc gag 403

```

<210> 1599
 <211> 117
 <212> DNA
 <213> Homo sapiens

```

<400> 1599
gaattcgcgg ccgcgtcgac ggtgtagatg atgtttgggg tcaatttctt ctctgcctc 60
ttcacagtgg gtcactgct agaacagggg gccctactgg agggaacca actcgag 117

```

<210> 1600
 <211> 103
 <212> DNA
 <213> Homo sapiens

```

<400> 1600
gaattcgcgg ccgcgtcgac cgagcatcct aggatatcca aaaggctaga gtttggagag 60
gaaagttaat ctatttatga agtttaggaa aggcacctc gag 103

```

<210> 1601
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 1601
 gaattcgcgg ccgcgtcgac atcacgaggg cttcccttca gagagctgac aatattaaca 60
 gcacagagaa tactaggtct gttgattaaa actcaaggct tcatactgta agggcccaaa 120
 aggaagcatt aaattgggcc ataggaagga caagtcacat ccagttagt gatcaatggt 180
 ggtttgggaa agaaataaca gaattctact cctacatgat agggagagac tacagaggcc 240
 acctagacca acaaactctg ccacaggtc cttgaatcat tgctaccatg tcctgggtggt 300
 ggttgtagca ttgctagtga tatgtaactc attacctact tatgcaaacc tcgag 355

<210> 1602
 <211> 613
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (592)..(601)

<400> 1602
 gaattcgcgg ccgcgtcgac aaggagataa atatcttgcc ttagtcatta caaagcaata 60
 tcttgatatg taaatgctaa tctggggcct gggcagtttc aactagaaat atacgtaaga 120
 ttccagaaag aactcatacc agtttggtct tatgtctttt ctttaagttct tactgtgatg 180
 atatgggttca ttaaaattat tttttttctg atacattcta attaacatga aatcctttat 240
 gtactgcact agcttttaaaa aataataata attttaagag actccaatga acattaatgc 300
 atttttttat ttatgcacag caattatatt ccagaagtga gaatcatgtc aattcccaac 360
 cttcgtctaca tgaagggttag taccttgctc attaacagga agaaaaaggg attgatcaat 420
 gatgtgtgta catgtgtatg tgggtggcag tgtgtgtatt tggcacagga tccagtgcag 480
 aagggataga aaagaagaca gtttgggata ataaagacta aatttggtga cactgagatt 540
 cttgacaaca gcatctgatg aaaagtaggg agaaggagca ggggtgcacat tnnnnnnnnn 600
 ntgagtactc gag 613

<210> 1603
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 1603
 gaattcgcgg ccgcgtcgac gggcgaggct ggactggaag gtaaaaggct tgccagagtc 60
 ttggggagaag agaggtccca gtggggactg gtacgtgtca gcctgtccac actgcttctt 120
 caggtgggta cagtaattgt gagcgacctg cgtcacaggg tagatactga actggcagag 180
 agcaccttca aactggactg catgcgggct catcttccca aagagggaag agccccagag 240
 gtcgagtga ggtccctg tggaaaaggca gcaggacagg caccgggcgc tgcccgcagg 300
 cagtcaccag agtgactgtg cggcatcgga gctcgag 337

<210> 1604
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 1604
 gaattcgcgg ccgcgtcgac cttggaactc cgttatccgc gatgcgttcc ctggcagcta 60
 catctctgct cctggcgctc agcacctctg cccaggccga accgggtgcag ttcaaggact 120
 gcggttctgt ggatggagt ataaaggaag tgaatgtgag cccatgcccc acccaacctt 180
 gccagctgag caaaggacag tcttacagcg tcaatgtcac cttcaccagc aatattcagt 240
 ctaaaagcag caaggccgtg gtgcatggca tcctgatggg cgtcccagtt ccttttccca 300
 ttcttgagcc tgatgggtgt aagagtggaa ttaactgccc tatccaaaaa gacaagacct 360

atagctacct gaataaacta ccagtgaaaa gcgaatatcc ctctataaaa ctggtggtgg 420
 agtggaact tcaggatgac aaaaaccata gtctcgag 458

<210> 1605
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 1605
 gaattcgcgg ccgcgtcgac cttaaaagtt atagatttgc aaatttcaa gaaagccgtc 60
 ttatttaatt gatatttga aatttataac tcacctttca gtggaatagt ttttgtaaat 120
 tcatgagaaa gaaacaaaat atcaatttat agtagttgat ggtgttataa atccagaaga 180
 agctctataa cattataaaa atcaagattg gttgctcaca ttttagagta ccaaaggcag 240
 caaaatgatg taatttataa ataataaatc ttaaaactgtt gataaaccac actctgaagt 300
 atttttaaag aggtttatc taagccaatg agtgaccata gcccaaggag cagtctcaag 360
 aggtcctgag aaagtgtgca ctgggtgttg gagttacatt ttagggagta ctcgag 416

<210> 1606
 <211> 242
 <212> DNA
 <213> Homo sapiens

<400> 1606
 gaattcgcgg ccgcgtcgac cctaaaccgt tgattgaatt ctagacctgc ctcgagtcca 60
 ggatattgac ttctgaattc ttaagtttct ttcttcccag ctctatgagg ccactaatag 120
 ctctatcaat gttattggcc ctcatccag gcaacactca gcttctcagc tttttgcctt 180
 ccagaatca gcaatacat tcagctaaga aaaaaaaat agctgcagca catcagctcg 240
 ag 242

<210> 1607
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 1607
 gaattcgcgg ccgcgtcgac aatcaggaat ttgaagaaaa tggaaatggt tacatttttg 60
 ttgacgtgta tttttctacc cctcctaaga gggcacagtc tcttcacctg tgaaccaatt 120
 actgttccca gatgtgtgaa aatggcctac aacatgacgt ttttccctaa tctgatgggt 180
 cattatgacc agagtattgc ccggttgaa atggagcatt ttcttctctc cgcaaatctg 240
 gaatgttcac caaacattga aactttctct tgcaaaagcat ttgtaccaac actcgag 297

<210> 1608
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 1608
 gaattcgcgg ccgcgtcgac cattgacttc ttctaccggc cgcataccat caccctgctc 60
 agcttcacca tcgtcagcct catgtacttc gcctttacca gggatgactc tgttcagaa 120
 gacaacatct ggagaggcat cctctctgtt attttctct ttcttatcat cagtgtgtta 180
 gctttcccca atgggtccgt cactcgacct catccagcct tatggcgaat ggtttttgga 240
 ctcatgtgac tctacttctt gttcctggta ttctactct tctgaattt cgagcaggtt 300
 aaatctctaa tgtattggct agatccaaat cttcgatagc ccacaaggga agcagaagtc 360
 ctcgag 366

<210> 1609
 <211> 120
 <212> DNA
 <213> Homo sapiens

<400> 1609

gaattcgcgg ccgcgtcgac gtgcattata gtgatttcag tagattcaca ctcaaatctt 60
 ttcagtgta tacattttatt aagccataaa gttatgaaac cctcagctct tgtactcgag 120

<210> 1610

<211> 209

<212> DNA

<213> Homo sapiens

<400> 1610

gaattcgcgg ccgcgtcgac tgacaccttt ccccaaatat agattacaat aaagaaggct 60
 actaaatgca tctgaaaagg tggatcctga ctactgttag gctagactcc ctaagctccc 120
 actatgcccc gctaatttgt tttgtattt ttagtagaga cagggtttca ccatgttggc 180
 caggctgggc tcgaactcct gacctcgag 209

<210> 1611

<211> 230

<212> DNA

<213> Homo sapiens

<400> 1611

gaattcgcgg ccgcgtcgac attctagacc tgccctcgagt ctaccagga ctgcttgttc 60
 tttcttaaaa ccttaagcta actgtaggtc atcattcaca tgccaaaaat ccagccatgg 120
 cttctctttc aaaattaaca gtgaatatct tatccctagg ccatttcta ctctccagcc 180
 ttaaccttct tcccttctgc cactgctatc aagaaccgg cccactcgag 230

<210> 1612

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (380)

<400> 1612

gaattcgcgg ccgcgtcgac tgggccttta gaagacttgg cttcttcact ggagagcttt 60
 tattcaggag gctgctagca ccagtcctcc ctgcggcctt gccaaagaga gagtgtgaa 120
 aggggtgac cctctgtgctc gggctgactt caccgtcacc tgggtttcttc tccttcaggg 180
 aaaaggggtt cttattgggg cttattttct tcctgtgcca aaagatagcc atgtctttat 240
 gcaaaccttt ccccttcttt ctaggcaggg ctgcagatgc atgatcaaag aaatgtacca 300
 ctgcaagctt tttgctgcgc ctggtaaaga tgcgctgcac ttagcaatt ttgccaaat 360
 ggttctccag aatggaacgn tctcgag 387

<210> 1613

<211> 273

<212> DNA

<213> Homo sapiens

<400> 1613

gaattcgcgg ccgcgtcgac gtaggaattc caggttcagg ttccagcaca gccaatat 60
 tcacaggatt gttgtgtgaa ctgaatgaaa cacacacata tgaaaacaag gtatcttgat 120
 aaatcagtaa cttttataac accgttgctc caaaaaaag ccttacttta ttactttatg 180
 tgcattgtct cattaatate ttctagtgtc tgtgattgtc aggtcagcac tgtcagccac 240
 ttcaagaag aagagaatag gggagatctc gag 273

<210> 1614

<211> 345

<212> DNA

<213> Homo sapiens

<400> 1614
 gaattcgcgg ccgcgtcgac gttcttagta ttttaagaggc cttcataatc acagaagaga 60
 gtgatattat aggattagaa cattgtattt ttggttttgg gtgctgaagt tctaattctta 120
 cctctgaagt gatcctgata ttttgccaaa gttgtgactt taatattctg tggcttgtaa 180
 ttgtgatttt tctaatacca gagtagaatt ctggggagga atttttctaa acccaaatac 240
 ctcaatttga agtgagggtt ggctttaaat aataacacat ttgagtttga gcttttctctg 300
 caattaagtg gtatgctgca aaaaggaatt cggtttagcg tcgag 345

<210> 1615
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 1615
 gaattcgcgg ccgcgtcgac cgattgaatg gggtttttgg gggttctttt tgttgatatt 60
 attgttgttt tctgtttgtt tgtttgtttt tttgtttgtt tgttttttat ggtcaggcca 120
 cttgtctata gtcttctgtt ggtttgctgt ggtctgtctc agaccctagt tgcctcagtt 180
 tttcccatat ctgaagggtat caccagtgaag agctgcaaaa catcaaagat ggcagcctgc 240
 ttcttctctt gcttcttctt cgcgcgagct catgcctgta atctcgag 288

<210> 1616
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 1616
 gaattcgcgg ccgcgtcgac gtgttccga cacaagaaa tgataaatgc ttcagggtgat 60
 agatatgcta attatcctcc ttttatcatt acactttata caaatgtatc aaagtttcac 120
 actggctggg cccggtgact cacacctgca gtccgaactc gag 163

<210> 1617
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 1617
 gaattcgcgg ccgcgtcgac attttaaaac agctgtccat actttcttga acctaaagcat 60
 acaattgaac tgtttccact gcaccgctcc taacatttct ttttgtctca tttctctttg 120
 tggctaattt ttaagataat ataaacttgc attaataaat ttaatgagaa agtggttagg 180
 ctatgtgtgg cagctcacat ctgtaacccc aacactttgg gaggtgagg caggagaatc 240
 tcttgagccc aggatttctga gatcagcctg ggcactactg caagacctcg ag 292

<210> 1618
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 1618
 gaattcgcgg ccgcgtcgac cacacagtgt taccggatga ggagtctggt cttgctttgc 60
 tttctctgcc ttttctgtct tgcatttggc tctcccgccc tctacacgc accccgcttg 120
 ttgcttctct tattctccag ttcccttcca atcccccttc acttctcttt actccccctc 180
 cccaggtcag tgcctggcgt ttccctccctc tttctgttct cccatccctc cgggcagctg 240
 tctctgtcgt gttctgtctc ctgctctccc gccctcctac acgcaccgc ctgttgcctc 300
 tctcattctc cagttccctt ccaatcccc ttcacttctc ttactcccc tccccaggt 360
 cgctcgag 368

<210> 1619
 <211> 108
 <212> DNA
 <213> Homo sapiens

<400> 1619

gaattcgcg cgcgctcgac ggtgggtcaa tcatcagttt aggctgccat aactaatatc 60
 atagacggtg gcttaagcaa cagaatgtat tttctcacac tactcgag 108

<210> 1620

<211> 287

<212> DNA

<213> Homo sapiens

<400> 1620

gaattcgcg cgcgctcgac caagaagttc aggaacaagt ctcccaaaaa aactgaaatt 60
 gtactgctct aatgttaaag tcaccttttg catttctctg gctaggagtg aggggaactg 120
 ggaagaatga attcctgaca cacctttctt tgggtttttt tttggctttt gcagtgcctg 180
 catctacctt cagcccgctc ccagggggcca attacagtc cactccctac accccctcac 240
 ctgtcccccac ctacactcca tcccagcac cagcctatac cctcgag 287

<210> 1621

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1621

gaattcgcg cgcgctcgac gggccccct tccccagtc ttaacaacaa aaaacaaaaa 60
 accagcctgg agatctacat tgtgatgctt ttaataaact tgactccttt cttggccagc 120
 tgtctcgag 129

<210> 1622

<211> 336

<212> DNA

<213> Homo sapiens

<400> 1622

gaattcgcg cgcgctcgac taaaatcaga acgtcagctc cgggtttggt aatgggcagg 60
 tgttttccaa aatttggttg taaagctttt gtttgatata tcaaatattat tcccccttga 120
 aacaaatata tctacttagt aaatatctgt ggaattatct ttaagctat gagtagcaaa 180
 aaaggtggcc ttgtgttcac ccacttacc ctcctcttta gctcctgggg cagacatctg 240
 gaattcttcc tagcactctt cctgctgata ccagatacaa ctgcagtagt tcataacatg 300
 accctgcagg tgcccacaac caaggcatta ctcgag 336

<210> 1623

<211> 301

<212> DNA

<213> Homo sapiens

<400> 1623

gaattcgcg cgcgctcgac ggattaccag cacctcaggc cacaaagcat ccatcagcgg 60
 ggcgtctcaa ctgtggacca cctctgctgg cgtgtgggca gtgactccca cattcagcgg 120
 gcgccacacc caccatata gcatgttttg ggtgaggcac ttgttctgga ctcttcaca 180
 ctacagggta gctataacca gcctctgggc ctgtccagca cccagtcaga tacccttttt 240
 cttgattgta ccattcgagg acttcagggt gaagcatcag atacctgtgc ccacactcga 300
 g 301

<210> 1624

<211> 202

<212> DNA

<213> Homo sapiens

<400> 1624

gaattcgcg cgcgctcgac tggagatgag tccctgggtc caattcatgc tgtttatcct 60
 gcagctggac attgccttca agctaaacaa ccaaatcaga gaaaatgcag aagcttccat 120

ggacgtttcc ctggcttacc gtcgatgacgc atttgctgag tggactgaaa tggcccatga 180
aagagtacca cagaaactcg ag 202

<210> 1625

<211> 219

<212> DNA

<213> Homo sapiens

<400> 1625

gaattcgcg cgcgctcgac ccacatttcg tttgtgtctg tttccaccat tcatagaaac 60
cttggaaacca ctctcacagc aatgctagga tgtttcatgg acctgttaag cattttgatg 120
atacaagaca tcttatcaat gccagtctta ttttcgctag gactctgctt ccacagtaag 180
ctcctaaggt gctcacccaa cccaggagaa aagctcgag 219

<210> 1626

<211> 389

<212> DNA

<213> Homo sapiens

<400> 1626

gaattcgcg cgcgctcgac gttgcagacc tcataatgac gctgacattt ccatttcgaa 60
tagtccatga tgcaggattt ggaccttgggt acttcaagtt tattctctgc agatacactt 120
cagttttgtt ttatgcaaac atgtatactt ccacgtgtt ccttgggctg ataagcattg 180
ctcgctatct gaagggtggtc aagccatttg gggactctcg gatgtacagc ataaccttca 240
cgaagggtttt atctgtttgt gtttgggtga ccatggctgt tttgtctttg ccaaactca 300
tcttgacaaa tggtcagcca acagaggaca atatccatga ctgctcaaaa cttaaaagtc 360
ctttgggggt caaatggcat actctcgag 389

<210> 1627

<211> 265

<212> DNA

<213> Homo sapiens

<400> 1627

gaattcgcg cgcgctcgac cacatagaga cttaatttta gatttagaca aaatggaaat 60
tatttcatca aaactattca ttttattgac tttagccact tcaagcttgt taacatcaaa 120
cattttttgt gcagatgaat tagtgatgtc caatcttcac agcaaagaaa attatgacaa 180
atattctgag cctagaggat acccaaaagg ggaaagaagc ctcaattttg aggaattaaa 240
agattgggga cgtccgaac tcgag 265

<210> 1628

<211> 232

<212> DNA

<213> Homo sapiens

<400> 1628

gaattcgcg cgcgctcgac gcatctcgta agagtaagaa tagttagata ttcttctgtg 60
ttatcttagt accattacca catctgagaa aattagcaat aattgttcag tttctctctc 120
aatctctatt caaaattgtc cccagtcctat tttgtgggac ttgaaaaaaa tcagataaag 180
cagataaatc aaatacatc catttatgca tttgattgtt aggtgtctcg ag 232

<210> 1629

<211> 483

<212> DNA

<213> Homo sapiens

<400> 1629

gaattcgcg cgcgctcgac ggaggagaat gagtatgtta atgaagataa aaagaagtga 60
catctcttgt acactgaact cacagaacat ttgtttacaa ttctgtgtga ctgtctgctt 120
ggagtttaca tatcaagtt ctgggctgtt tggtaacgta acgtttccaa acattttgtc 180